RECORD

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Oct. 16, 1890 F. P. Sco. (Colo)

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Jan. 1889.

1. To Lynn Beach and Little Nahant in the morning with B. Torrey. Saw one Ipswich Sparrow — very tame — we stood within 15 ft. of him. A female Merganser Serrator (?) sitting on a rock at base of wall running from the further end of beach to Little Nahant bluff. Also saw terns, Shore Larks, Loon sp.?, Herring Gulls, Old Squaws. We took luncheon in Boston and then went out to the Back Bay Park and over to Cambridge. Visited Mr. Tufts' aviary in Somerville. He has a fine Gray-cheeked Thrush captured last autumn, a Hermit Thrush, Brown Thrasher, many White-throated Sparrows, a few Purple Finches, Fox Sparrows, Song Sparrow, Cowbird, &c. Note the different bearing of the Gray-cheek and Hermit — the former tame, lively, and erect in carriage, the latter (although longer captive) shy and retiring — much of the time in dark corners. Also note the effect of confinement on the color of both the brown and red Purple Finches — tendency to yellow — the old male reminds one of the peculiar tint of some Red Crossbills. Pleasant.

2. Cloudy. Went down to Ipswich Beach with B. T. Found one Meadow Lark in the wet ground among the sand-hills. Several Flickers in the Pitch Pine, a few Tree Sparrows and an immense flock of Snow Buntings. One Song Sparrow heard in the village of Ipswich in the afternoon.

3. Cloudy till toward sunset. In the morning walked from Cambridge to the Linnæa woods near Turkey Hill, Arlington, via Arlington Heights. The Red-bellied Nuthatches are common this winter in the White Pine woods. It is many years since they have wintered here before. Saw three Flickers and a good many Snowbirds (Junco). The Chickadees occasionally sound their "phœbe" note thro' the winter. Brown Creepers are unusually common this winter. I hear four different sounds from

Jan.

them – the characteristic cree (much like the cedar-bird), a seep, a chip, and a peculiar querulous little repetition of notes.

4. Pleasant and warm. Discarded overcoat while walking. The winter so far has been open and mild. No snow since the big storm of Nov. 25 when about 4½ inches fell. Walked up to Hammond St. Station, Waltham, taking the train there to Wayland, thence on foot to Concord, by way of Walden Pond. Saw a dead woodcock on the side of the road in Lincoln. He was probably killed by the telegraph wire which ran along the road. Took dinner at the Wright Tavern in Concord and walked back as far as Weston, where I took the train to Waverley.

6. Hard rain all day. Wind 44 m. p. hour (Boston). Went out to the Pine woods near the Hospital in the P.M. Found the winter wren again when I saw him Nov. 16 and Dec. 5 and 6 (known the 6th). This wood and its opposite are the best place for winter birds that I know. The Song Sparrow that has spent the winter here sang yesterday.

8. To Arlington via the Heights, thence by rail to Bedford & walk over Curlew Bridge to Concord and Lincoln. The Walden woods seem to be a fine place for Red-bellied Nuthatches. Saw one late in the P.M. evidently settled to roost for the night he was sitting on a limb in the ordinary fashion. Wilson says the White-bellied Nuthatch roosts with its head downward. In the big swamp on the Bedford side of Curlew Bridge found nothing but Red-bel. Nuthatches, Golden-cr. Kinglets, Brown Creepers and Blue Jays. Winter Wren again in Waverley also a flock of Pine Finches, the only ones since Nov. 4.

Jan.

10. Pleasant. Went around Prospect Hill, Waltham by the old abandoned road. Saw a small flock of Purple Finches in the Red Cedars near the Tran. Central R.R. beyond Raymond St.

11. To Fresh Pond meadows in the morn. and thence over to the Linnaean wood in Arlington and back over Mt. Hgtn. and Wellington Hill. The meadows are too wet for exploration. Saw one Long Sparrow. Flock of Herring Gulls on Mystic Pond. Winter Wren at Waverley again.

12. Pleasant. To Nahant in A.M. A White-throated Sparrow (bright ♂) has appeared near the Hospital in Waverley.

15. Clear, fine day. 15° at 8 A.M. B.T. came over for the day. The White-throated Sparrow seems to be settled here for the present. The Long Sparrow sings in the morning now with the vernal ardor. He has a mate with him. The Kingfs are still common here tho' not observed much elsewhere. In the afternoon we walked over to the Linnaean woods. Saw three or four Flickers. The Callitriche verna is very beautiful now. Veronica officinalis in the White Pine grove at foot of Turkey Hill. Saw a Hairy Woodpecker at close range in the morning, showing bothnot tail feathers, &c. Not much larger than a Downy. Liability to confusion makes seen rare, on account of variability in size of Hairy.

17. Hard rain nearly all day. Therm. 54°. There is a second White-throated Sparrow near the Hospital — a dull-colored one. Saw another in Waltham (Old Forest St.) in P.M. It looks as if the warm weather had caused a northward movement in the case of this bird. Noticed the "pussy" Willows

have finished off the bird-seeds. Have not observed them before today.

18. Saw a man foraging in Waltham this morning. There is no frost in the ground. Dr. A. Chadbourne came out this morn for an afternoon walk West up thro' Rock Meadow and around to Waltham

19. Black alder. Wind NW to N. Found the flock of Purple Finches again in the same place where I saw them on the 16th. They are probably established there for the winter. A flock of about sixty birds.

20. 5° this morning, rising to 24° during the day. Walked over to Turkey Hill, Arlington, via Arl. Heights, and back before dinner. No snow to be seen even on Prospect and Massachusetts. We have had no snow here this winter since the storm of Nov. 25. The lowest temperature so far this winter was the 22nd of Dec. 3°. Saw three Downy Woodpeckers (two nice red on head), one Tree Sparrow, Junco, Brown Creeper, Chickadees, Crows, Juncos, flock of Red Crossbills, Blue Jays, two

21. Several inches of snow last night, turning into rain toward morning.

30. Snow still lies on the ground in patches, the last week having been rather cold. Went down to Marblehead. Walked around the Neck. Saw two long Sparrows, several Tree Sparrows, Flickers, one or two Butcher-birds. Also Herring Gulls, Black Ducks, and a number of a bird common off the coast in winter — habit of a small Loon, an expert diver, crown black, back brown (?), under parts white as well as whole neck, unless it be a narrow median dorsal stripe. What is it? The dark hue does not show on the sides of the neck tho' for the Red-throated Loon, and the crown appears too dark. The back is not black enough for a Murre and besides the bird seems too large. Near the pond at the Western end of the Beach

Either one in colored or white phase in Northern Harbor by Mr. Geo. Nov. 21, 1892 (Bull. N.E.O.C. VIII 1883)

Jan.

found about seven Killdeers, a part of the great flight brought in by the storm of Nov. 25! They were noisy and shy. Walked back as far as Swampscott. Not much of any one near the salt water.

Feb.

1. Went to Marblehead with B. T. Saw the same birds as on the 30th Jan. together with Chickadees, Brown Creeper, Crows, and one Black-backed Gull. Saw the Black Scoter at very near range, so near that we could see him scratch his head with one foot! Orange on bill very conspicuous. T. suggests that the problematical bird may be a Grebe. But where are the white secondaries? The Black Scoter, by the way, has a habit of often rising up, almost on end, in the water. The seven Killdeers are still there. Took train for Lynn after noon and walked over to Little Nahant. Two White-winged Scoters and a Loon, probably the Red-throated species. I forgot to say that at Marblehead we found Senecio vulgaris and Stellaria media in bloom. T. found them also on the 18th and 28th of Jan. These, together with Scleranthus annuus make up his list of January flowers. The last was found Jan. 18. No Ipswich Sparrows, Snow Buntings, or Shore Larks.

For some days I have noticed the rich orange color in the young shoots of the White Willow, a hue always noticeable in spring. Does the color of the bark really change at this season or is it the effect of a difference in the sun-light?

2. To Turkey Hill in the morning. Golden-crowned Kinglets and Brown Creepers in the pine woods both there and at Waverley. Observed the Kinglets poising on the wing among the pine sprays, like humming-birds! This action frequently repeated. One of the notes of the Tree Sparrows faintly suggests the familiar "Philip" of the House Sparrow. Red-bellied Nuthatches and Goldfinches.

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Feb.

3. White-throated Sparrow still remains near the Waverley Hospital, but can see nothing of the Winter Wren. Went to the Red Lions beyond Hammond St., Waltham, but didn't find the flock of Purple Finches. The chip of the Brown Creeper (see p. 2) might be mistaken for that of the Tree Sparrow. Saw a Shrike; it uttered a scream somewhat like the imperious cry of the Crested Flycatcher – but shriller. Then its mate (or male?) came and both screamed. The fresh grass is growing apace where the spring trickles down the hillside near the Waverley Hospital, with patches of snow hard by.

4. Thermometer 4° at 8 o'clock A.M. Saw both of the White-throated Sparrows this morning. Walked to Concord via the Concord turnpike. The Lincoln and Concord part of the road was very hard to travel on account of the coat of snow-ice. Hardly a bird to be seen on this road after leaving Rock Meadow. For winter birds one must haunt the neighborhood of Pine trees or a village with old deciduous trees. Returned after dinner by way of Walden Pond to Silver Hill Station. The contrast with respect to birds of the Walden road with its many pines and remarkable Chickadees, Brown Creepers, and Red-bellied Nuthatches comes, also the Downy Woodpeckers. The Walden woods have considerable snow – the pond is frozen over. In the village trees in Concord I saw two White-bellied Nuthatches and many Brown Creepers. The former does not appear to be in Waverley this winter, tho' not uncommon here last winter. The Red-bellied Nuthatch often feeds on the ground, like the Chickadee. Therm. 18° in Concord at 2 o'clock. Still all day.

7. 7° at 7.15 A.M., rising to 20° during the day. Strong N.W. wind. Worst day of the season so far. The White-throated Sparrows chief sounds rather melancholy and the merry notes of the Chickadees, Kinglets & Snowbirds. The chief seems to be the White-throat's regular note during the winter. I have only once heard the fife – and then he was scolding at a cat. The fife is his alarm note. The Song Sparrows have not been seen near the Hospital since Jan. 16. The Snowbird's in winter generally utters the characteristic note that Minot well compares to the sound made by chipping a stone across flint &c. [Sept. 15th &c.] Occasionally they give forth the chuck. The Golden-crowned Kinglet, besides his ordinary winter-song, has a little chip uttered while feeding. So has the Chickadee – in this bird it has a metallic tone which identifies it to a familiar ear.

The problematical sea-bird referred to ante, I believe to be the Colymbus holbœllii after examining the skins in Agassiz's Museum. Some specimens show no white on the secondaries.

8. 11° at 7.15 A.M. rising to about 28°. Cloudy. Wind W & S.W. White Wren again near the Hospital. First time I have seen him since Jan. 11. He uttered no note this morning. Has he been here all the time? Went across Prospect Hill in the morning. They are now cutting ice from the pond. On the upper Haverhill Meadows it is about 10in. thick.

9. Light snow this morning.

10. Sunday. Walked around thro' Forest St. Beaver St. &c. Animal tracks show well in the light snow that fell yesterday. Foxes, rabbits, mice

Job (Bull. N.O.C. VIII. 150) records flock of Rusty Grackles (about 10) in Brookline, Feb. 8, 1889.

Feb.

squirrels, and birds. Saw 14 species of birds during my walk: Flicker, Downy Woodpecker, Hairy Woodpecker, Crow, Blue Jay, Ruffed Grouse, White-throated Sparrow, Tree Sparrow, Snowbird, Goldfinch, White-bellied Nuthatch, Brown Creeper, Golden-crowned Kinglet, Chickadee. Two of the Nuthatches were in Beaver St., Waltham, one in the Waverley Oaks. It is a long time since I have seen them in Waverley. No Robins since December. The Cedar-berries are not plentiful this year, hence the Robins are scarce.

11. Went to Marlborough and Nahant with B. T. Snow. Saw Ruffle-heads at Nahant, three Song Sparrows at Marlborough, &c. Kildeers in same place, [+ snow!] on ice.

12. Snow.

13. 7° at 7 A.M. Solid winter day.

14. 11° at 7 A.M. Heard a snowbird sing — one trill! Ground now covered with a few inches of snow. Sleighing.

15. Warmer. First Robin to-day that I have seen since Dec. 19. The Goldfinches are feasting upon the hips of roses about the trees near a farm-house in Mill St. Also a Tree Sparrow. Last winter the hips were a favorite resort for Pine Finches, but this winter the Pine Finches have been very scarce. Do the sexes, in the case of the Goldfinch, segregate into separate flocks in the winter?

20. In walking out from Cambridge this noon I found a Rusty Grackle in the Fresh Pond marshes close to the Fitchburg R.R. He seemed to be numbed by the cold and ran along on the ice among the bushes. The country is now pretty clear from snow. Weather cold. The Grackle uttered a low chuck! he was in the rusty grade.

Shot the Rusty Grackle on the morning of the 25th. The water had frozen on his wings and legs as he splashed about in the little space of open water. Some of his toes and pieces on his tarsi were swollen, sore, & sore, as if frozen. I fancy he has wintered here.

Feb.

22. Warmer, South wind. Went to Marblehead and Nahant with B.T. Kilbrer all right – seven of them. At Nahant heard a Shrike singing. The most musical one I have ever heard. Certainly suggests a Mocking-bird in song as well as plumage! Can Mergansar serrator?

Also one Spotted Sparrow and 20 Black Ducks

23. Sudden cold wave. 2° at 8 A.M., 3° at sunset, 0° at 11 P.M. Wind N to NW, high all day. Coldest day of the winter.

24. 5.5° below zero at 7.15 A.M., 12° at 6 P.M. Still, bright day. In the afternoon went to the Fresh Pond marshes. Saw four Song Sparrows in a bunch. Near the place where I saw the Rusty Grackle on the 20th I saw (apparently the same) bird again. It was feeding, towards sunset, in a small space of open shallow water where a drain pipe carries the overflow of Glacial Pond under the Fitchburg R.R. I have been over this region twice since the morning of the 20th without finding a Grackle. It looks as if there were only one bird there. Was he possibly wintered here? It is well to be so in Connecticut (Merriam). See p. 8.

25. 12° at 7 A.M.

26. 7.5° " " "

27. Somewhat warmer, easterly wind, with attempt to snow.

Mar.

2. Yesterday and to-day have been mild, therm. 54° to-day. No Bluebirds yet, tho' I have heard indirectly of their appearance in Dedham in the early part of Feb.! I haven't seen a Cardinal this winter. I now hear from the Investigators at times a low, warbling song, not at all like their regular trill. Heard the Flicker's "Wick-a-wick" (wh. I take to be a love-note) on the 21st of February.

3. 50°. Heard a Song Sparrow sing, and a Flicker shout. Saw flock of ten Red Crossbills in all stages of plumage.

The earliest Fox Sparrows I have heard of this year were heard singing on the 10th by Mr. Trevor Chamberlain, in Arlington.

Job (B.N.O.C. VIII. 152) records Fox Sparrow, Feb. 4, 1882, & Feb. 17 (1882?)

B. Torrey saw one Dec. 26, 1887.

Mar.

10. Flock of six or eight Meadow larks in Rock Meadow this morning. Pretty sure I heard a Bluebird. The early migrants are late this year. For the past week the weather has been rainy or cold.

12. Mild day. Walked to Concord *viâ* Lincoln, Sandy Pond & Walden Pond & back on the Fitchburg R.R. as far as Silver Hill. The ponds are covered with ice still, no snow to speak of. Saw about six bluebirds in different places. Four Red-bellied Nuthatches in the woods near Walden Pond.

13. Warm, 60°, but rather windy in P.M. Wind southerly. Rusty Grackles and Red-winged Blackbirds have arrived in considerable numbers. Pair of Sharp-shinned Hawks at the Waverley Oaks where they bred last year. I think they have bred there for a long time. To Jamaica Plain in the P.M. Walked to the Wild Farm region. One flock of Robins in the Swamp. This is the worst Spring-like day so far –

14. Went around Rock Meadow. Flock of eight Meadow larks and two Ducks (Anas obscura?), the latter on the wing. The Flickers showering, one small flock of Robins, one Shrike, &c.

15. Cloudy and cold. Went with B. T. to Lexington, thence on foot thro' Sanger to Melrose Highlands. Saw one large Hawk, small flock of Fox-colored Sparrows. Heard a Golden-crowned Kinglet sing – not with much vim, but assuming by the summer-song. The Fox-Sparrows uttered a very faint seep – fainter than a song-sparrow.

16. Large number of Robins and Red-winged Blackbirds, the former singing.

19. Saw the Bronzed Grackles in Norton's pines, Cambridge, for the first time this season. In the afternoon went up to the Red Cedars beyond Hammond St., Waltham. Enormous numbers of Robins and some Snowbirds, but no Purple Finches.

22. To Marblehead and Nahant. Saw nothing of the Alcids at Marblehead. Large numbers of Dusky Ducks at Nahant. Flight slow.

23. Very warm and pleasant. The Antiopa butterflies are all the rage. Heard Hyla Pickeringii and Rana sp. (the one that sounds as if he was gargling) R. halecina ? Bred Phus infuus. Wind SW.

24. Another fine, very warm day, remarkable for this season. Wind West. Therm. 64.2 (Brit.) Large arrival of Snow-birds. Saw six or eight Fox Sparrows during the day (in two places). Went around Mystic Pond and thro' the Bunaea Woods, &c. Many Vanessa Antiopa and Grapta comma (?) on the wing. Also one Grapta J-album and many small moths. Saw Striped Snakes (first time). Chorus of Hylae in Waverley during the evening. Saw no Red-bellied Nuthatches, Brown Creepers, or Kinglets all day, tho' much of the time in pine woods. The Mystic Ponds are entirely free from ice. Here and there a little snow-ice is found in the woods. The Snowbird note that Minot compares to the sound produced by blowing a stem across the lips is not, I think, the common chatter of this bird, but a peculiar resonant note sometimes heard when they are playing (or quarreling?).

25. Tree-birds arrive. Alder flowers.

26. Pewee arrives. While in the Museum at Cambridge this morning I am very sure I heard a Warbler song outside sounded like the Canadian! What could it have been?

27. To Nahant in the morning. Flock of fifteen Canada Geese in Lynn Bay. In the afternoon flushed a Woodcock in the grove by the Waverley Hospital.

29. Saw two Savannah Sparrows on the Brooks' place, Medford.

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31. Sunday. In the morning walked to the Cemetery and by way of Adlington Heights, thence around Mystic Lower Pond and home on Pleasant St. Saw 25 kinds of birds. Two Purple Finches (singing), one Hairy Woodpecker, & flock of Goldfinches, the first seen since Nov. 1! Many Savannah Sparrows in stubble-field on the Brooks estate by Mystic Pond. Uttered a note between a chink & a chirp, no song. Snow still the F. W. Temp. about 32°. Wind S.W., S., & E.

Apr.

3. To Arlington and Mystic Pond in the morning. The Red-bellied Nuthatches are still present in the pine woods. Saw one Yellow-rumped Warbler — singing. No swallows yet, or Kingfishers tho' I heard of a Kingfisher's being seen on the 1st. The Red-bellied Nuthatch has a green like chatter. In the grove by the Cemetery hospital I heard several times repeated the song mentioned on the 26th Mar. It is a song that puzzled me on Jamaica last summer, I think. Suggests an imperfect Canadian Warbler song. Can it be the song of the Brown Creeper, mentioned by some writers? In the afternoon saw a Great Blue Heron in Rock Meadow, and several Dusky Ducks.

4. First Day. Cloudy. Three Great Blue Herons and as many as eight Dusky Ducks in Rock Meadow. Crept up very close to the latter before they took flight.

6-7. At Ipswich Sand-hills (Mr. Woodbury's). Very few birds. No Ipswich Sparrows, Snow Buntings, or Horned Larks! Wind East, cold.

10. The Hazel and Red Maple are now in flower. To Mystic Pond in the morning. Saw Two White-bellied Swallows, Bay-winged Buntings, and one Winter Wren singing Sotto voce. The Wren has one note (alarm-note) very much like the diagnostic chuck of the Song Sparrow. The Robins now begin to sing at 4.30 A.M., Song Sparrow a few minutes later. Sun rises, 5.11.

Is it to deceive the observer?

23. While I was watching a Swamp Sparrow at pretty close range in the Clematis Brook Thursday this morning he sang repeatedly a low song (subvoce) quite different from the usual one. It resembled some of the notes of the Tree Sparrow. Some days ago a Song Finch sang close by me in a very subdued tone with a charming ventriloquistic effect. I have at times heard the Song Sparrow, White-throat, etc. sing similarly when they were apparently aware of being observed. The call note of the Swamp Sparrow resembles in a small way the pip of the Pectoral Bird. The Song Sparrow has besides its diagnostic chuck, a seep, and a chip. The Swamp has a chip, a cheep and a tight chuck. The Field Sp. a chip much like the Tree Sparrow.

24. Heard a queer variation of the Pine Warblers song to-day — a marked fall of the voice at the latter half of the trill. The Swamp Sparrows are late singers. Heard them in the Clematis Brook meadows tonight after seven o'clock. The meadows seemed to be full of a morning frog — different from the gargler — which is R. halecina?

May 4. To Concord and Wayland with B.T. The Bobolinks have arrived. Watched a Bittern jumping for over an hour in the same meadow where we saw him last year. He was further off than before but gradually approached to within nearly the usual distance. The preliminary sounds were a sort of hiccough, as Harry says in the Auk, — could not hear the click of the bill. In one part of his course he mounted the remains of an old haycock, as last year, and jumped over it twice. Harry saw one jump in Dudley Swamp, Stoneham, day before yesterday.

10. Black-poll Warblers in Waverly this morning.

May 11.

11.

May 10. Went up to Mt. Greylock (Mr. Wilbur's in the Notch). Very hot to-day and yesterday – 90° yesterday in Boston. Saw the following birds in walking up to the Notch thro' the "Winter Road" – Wood Thrush, Hermit Thrush, Catbird, Red-eyed Vireo, Chestnut-sided Warbler, Blackburnian W. (3), Black-&-white W., Redstart, Black-throated Blue W., Blue-&-yellow-back W., Oven-bird, Song Sparrow, Chipping S., Field S., House S., Savannah S., White-throated Sp., Indigo-bird, Rose-breasted Grosbeak, Black-throated Green Warbler, Least Fly-catcher, Pewee, Crow, Blue Jay, Purple Finch, Barn Swallow, Chimney Swift, Robin, Chickadee, Blue-bird, Towhee, Nashville Warbler, Maryland Yellow-throat, Trowbirds = 34. Both species of yellow violets and V. rotundifolia in flower.

11. The vegetation at North Adams seems to be a little in advance of Boston, at Mr. Wilbur's in the Notch perhaps a little behind. The birds are apparently earlier here, e.g. the Wood Thrushes, Black-throated Blue Warblers, Black-&-yellow W., Blackburnian W., Chestnut-sided W., none of which I have seen this season near Boston, are here in full force, and the Indigo-bird is here too.

Went up the Greylock turnpike in the morning to within nearly a mile of the summit when I was compelled to retreat by heavy rain. The White-throated Sparrows abounded, other flocking; found the Golden-crowned Kinglets and Red-bellied Nuthatches, one Yellow-bellied Woodpecker. Dendroica maculosa & D. blackburniae abundant but no Canadian Wrs nor Swainson's Thrushes. In the afternoon went up to the Bellows-pipe & down on the S. side into the spruce land. No Wandering Warblers, one Canadian

List of birds obs. on and near Longtock Mt.,

May 10 – 29, 1889. × = "in same place as before".

1. Bonasa umbellus. 11.12.13.14.15.16.17.18.19.20.21.22.23.25.26.27.28.

2. Ingotata fuliginosa. 11.

3. Ophrysfiens varius. 11.17.

4. Colaptes auratus. 11.12.13.14.18.19.20.23.24.26.28.

5. Chaetura pelagica. 10.11.13.14.15.16.17.18.19.20.21.22.23.24.25.

6. Sayornis fuscus. 10.13.14.15.16.18.20.23.24.25.28.

7. Empidonax minimus. 10.13.14.15.16.22.25.29.

8. Cyanocitta cristata. 10.11.12.13.14.15.16.17.18.19.20.21.23.24.25.26.27.28.29.

9. Corvus americanus. 10.11.12.13.14.15.16.17.19.20.21.22.23.24.25.26.27.28.29.

10. Carpodacus purpureus. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.28.29.

11. Spinus tristis. 11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.

12. Pipilo erythrophthalmus. 11.12.13.15.16.18.19.20.21.22.25.26.27.28.

13. Ammodramus S. sandwichensis. 10.11.12.13.14.15.16.18.20.21.22.23.25.

14. Zonotrichia albicollis. 10.11.12.13.14.15.17.19.23.24.26.28.

15. Spizella socialis. 10.11.13.14.15.16.17.19.20.21.22.23.24.25.26.27.28.29.

16. Spizella pusilla. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.28.29.

Wr. The foliage has hardly started on the trees up on Smyloek. Claytonia caroliniana abundant & a good clump of the Dicentra cucullaria (& D. canadensis). One large patch of Snow in the Bellowspipe in Notch Brook "gutter".

13. Watched a Partridge drumming. Sits down on the log and applies his tail closely to it. The wing-joints are fully extended and they strike the sides of the body, as far as I could see. The sound appears to result from the wing striking the sides (drumming, at any rate). Whole action almost spasmodic. The first has worn the surface of the log (by attrition of claws).

14. Fair Winter Wrens and good Swamp Sparrows this morning, on the "Winter Road" to the village. None of the former in the afternoon in their favorite haunt on S. side of the Bellowspipe. The Mazer-patch has all gone from the Bellowspipe.

15. To North Adams in the morning by the Electric Road, down the River to Braytonville and back by the west-road past the slaughter-house. In the wood on the left bank of the River just below the fair-ground found a good many (perhaps eight or ten) Tennessee Warblers in full song. The Redstarts and Least Flycatchers seem to be much more abundant in the lower country than they were last July. Hermit Very sing for the first time this season.

16. Down to the River again. Saw two Red-winged Blackbirds and a Traill's Flycatcher along the River above the village. A few Tennessee Warblers (not so many as before) in the same place as yesterday. A Meadow Lark in the hilly fields this side of Blackinton. The Blackbird & Ill. Yellow-throat are not in my Songbook list of 1888. Not the alarm rattle of the Meadow Lark. Pyrrhuloxia ludoviciana has appeared.

17. Went up Graylock by the Tower path — I drove with the Bellowspipe. The Blackpoll Warbler meanders into view in the woods (carriage-road). The Black

17. Junco hiemalis. 10.11.12.14.16.17.19.23.24.26.28.

18. Melospiza fasciata. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.

19. Passer domesticus. 10 (North Adams village). Extends up the "Windy Road" as far as the Reservoir.

20. Pipilo erythrophthalmus. 10.11.13.14.15.19.20.21.22.24.25.26.

21. Habia ludoviciana. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.25.26.28.

22. Passerina cyanea. 10 (one). 12 (same place). 14.15.16.17.18.19.20.21.22.23.24.25.26.27.29.

23. Chaetura pelagica. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.28.29.

24. Vireo olivaceus. 10.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.

25. Vireo solitarius. 11.14.26.28.

26. Mniotilta varia. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.28.

27. Helminthophila ruficapilla. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.28.29.

28. Compsothlypis americana. 10. 11 (near same place). 15 (same place, 1 one in Pl. VII near Hilburn's). 24 (Nr. Bellows Falls). 26 (S. side Bellows Falls).

29. Dendroica coerulescens. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.26.28.29.

30. " maculosa. 11.12.13.14.15.16.17.18.19.20.21.23.24.25.26.28.

31. " pensylvanica. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.

32. " blackburniae. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.

American Warblers are extremely abundant up to within a mile or so of the top. Saw a Yellow-rump in the Mountain Pasture and several more near the summit. The song mentioned Mar. 26th and Apr. 3rd is the Brown Creeper! They are in full song now on Graylock. No Swainson's Thrushes yet. I have seen no Yellow-rumps in the low country about Lee and I imagine those on the mountain are there to stay. Papilio turnus appears.

The Savannah Sparrows are found above Mr. Eddy's in the Notch.

19. Up Graylock with Dr. S—e and his son. Heard the Golden Plovers and saw one or two Swainson's Thrushes. The latter did not sing — only whistled.

20. Heard the Yellow-breasted Chat this morning near the North Adams reservoir — same place where he was last year. The Azalea nudiflora is now in full flower.

22. To Shogan's Fish-Pond & down to Graylock — all day. Good many White Pines near the pond. Among these shot a female Pine Warbler, the only one seen. Also saw one or two Yellow-rumps in this place. No Tennessee Warblers in the place where I found them last week.

23. Cold. Went up to top of Graylock and back (via turnpike) before dinner. Fog drifting over summit. Heard or saw no Swainson's Thrushes this time. The Pine Warbler got yesterday has eggs nearly ready to lay.

28. Up Graylock. Pleasant day after several days of rain. The Seymours say that two inches of snow fell on the summit Sunday morning. The tree foliage has hardly started there yet. No birds on summit but White-throated Sparrows, Snowbirds, and a Canadian Warbler. No Swainson's Thrushes seen or heard anywhere on the mountain! Cold and birds not singing much.

33. Dentaria virens. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.

34. Sisyrinchium anceps. 10.11.12.13 (aerial long). 14.15.16.17.18.19.21.22.23.24.25.26.28.29.

35. Geophyllum tricharum. 10.13.14.15.16.17.18.20.21.22.24.25.26.27.29.

36. Silene conoidea. 11 (one). 13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.

37. Stellaria cuneata. 10.13.14.15.16.18.19.20.21.22.24.25.26.27.28.29.

38. Galeopsis ochroleuca. 10.11.13.14.15.16.18.19.20.21.22.24.25.26.29.

39. Hesperochiron pinnatus. 11 (one). 13 (another). 14.16.18.20.21.22 (visit. 12, 2 m. Fox Pond). 25.29.

40. Trifolium hirsutum. 11 (Hayford). 17 (do.). 19 (do.). 23 (do.). 28 (do.).

41. Stellaria crassifolia. 11. 17 (Hayford). 19 (do.). 23 (do.). 28 (do.).

42. Prunus americana flore. 10.11.15.16.17.19.20.23.24.26.28.

43. Ranunculus septentrionalis. 11 (Hayford). 19 (do.). 23 (do.).

44. " acrolenicus. 11.13.

45. Lactuca canadensis. 10.11.13.14.15.16.18.19.20.21.22.23.24.25.26.

46. " floridana. 10.12.15 (2 clumps). 16.17.18.19.20.21.22.23.24.25.28.29.

47. " n. sp. Gaillardii. 10.11.12.13.14.15.16.17.18.19.20.22.23.24.25.26.28.

48. Elymus virginicus. 10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.

May
29. Returned home.
31. The Linnæa in Arlington is now in full bloom.
June
2 Heard the Ker-wee of the Carolina Rail in the Blueweed Brook marsh this afternoon — the same place where I heard it last year.
3 To the Fresh Pond Marshes in the morning. Long-billed Marsh Wren singing and a good many Carolina Rails. Saw one Rail very near. He flew up above the long grass, letting his legs hang down as he flew. Heard a Bittern jumping in Rock Meadow in the afternoon. The alarm note of the Swamp Sparrow is sharp & metallic, suggesting the White-throated Sparrow's. The rails in the Fresh Pond Marshes were singing Ker-wee, and occasionally heard the whinny. Also heard a loud rail-like note (series of notes, suggesting the Cardinal's whinny) near Alewife brook —
6. Went out to the cattail swamp on Mill River near the Punch-Bowl, Brookline, in the evening with Mr. Brewster & Mr. Francis. Heard the Least Bittern (?) coo, coo, coo & the Carolina Rail (Mr. B—r) cut, cut'tuk, cut'tuk, cut'tuk. Also heard the whinny but not the Ker-wee.
7. To Concord and around to Weyland with B.J. Saw three Yellow-backs Warblers, one Meadow Sparrow, three Crested Flycatchers (in one place), two Morning Doves, one Bittern, two Wood (?) Ducks, both Marsh Wrens. The bittern was flying low, not far off, and twice emitted a hollow, pump-sound (a single note each time) while flying. In the evening met W.B. & B.J. in the Fresh Pond Marshes. Before I arrived they saw

Ship to Nipmuck Pond

49. Sialia sialis. 10.11.13.14.15.18.19.20.21.22.23.24.25.26.27.28.29.

50. Sitta canadensis ? 12.16.19.

51. Dolichonyx oryzivorus. 12.13.14.15.16.17.18.19.20.21.22.23.24.25.27.28.29.

52. Contopus virens. 13.14 (three).15.16.17.19.20.24.25.28.

53. Pyrangia cyanea. 13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.

54. Tyrannus tyrannus. 13.14.15.16.17.18.19.20.21.22.23.24.25.28.29.

55. Contopus virens. 14.16.18.19.20.21.22.24.25.29.

56. Setophaga ruticilla. 14 (No Adams village). 15 (Brayton's). 16 (N. Ad.). 20 (do.). 22 (do.). 24 (do.). 25 (do.). 29 (do.).

57. Geothlypis philadelphia. 14 (one). 15 (two, 2 places). 16 (do.). 17 (2 other pl.). 18.19.20.21.23.24.26.28.

58. Seiurus aurocapillus. 13 (on the wing). 21 (heard).

59. Icteria virens. 15 (Hoosic R., No. Adams). 16 (do.). 20 (Rio?). 21 (do.). 22 (do. & Fish-Pd.).

60. Vireosylva olivacea. 15.20.22.27.

61. Mniotilta varia. 15 (No Adams). 22 (do.).

62. Vermivora pinus. 15 (No. A.). 16 (do.). 22*.

63. Helminthophila chrysoptera. 15 (just singing on slope, Hoosic R., Braytonville). 16 (few in same place).

64. Dendroica aestiva. 15 (No. Adams). 16 (do.). 22*.

65. Petrochelidon lunifrons. 16. 22.

66. Empidonax fr. traillii. 16 (near village). 18 (nr. Reservoir, on Notch Brook). 20 (do.). 21 (do.). 22*. 23*. 24 (bot. S. side of Bellows Pipe). 25.* 28*.

67. Myiarchus sp. 16 (brook meadow, just above Notch. Ave.). 22*.

68. Sturnella magna. 16 (field above Blackinton. Ave.).

69. Ceryle alcyon. 16 (brook, just above Notch. Ave.). 22 (pond, Fish Pond).

70. Antrostomus vociferus. 16 (off. Walden's).

71. Dendroica virens. 17 (Graylock). 24. 26.

72. Dendroica coronata. 17 (Graylock). 19 (Notch & G'k). 22 (nr. Nugent Fish-Pond). 23. 28 (G'k.).

73. " striata. 17 (ave.). 19 (village & Winter Road). 20 (do.). 21 (do.). 22. 26.

74. Geothlypis trichas. 17 (Graylock). 19 (do.). 23 (do.). 28 (do.).

75. Oporornis agilis? 18 (No. Adams Reservoir). 20 (do.). 24 (do.). {Also Oporornis agilis, nr. 1. July, 1895}

76. Myiarchus crinitus. 19 (Graylock). 22 (Winter Road).

77. Turdus ustulatus swainsonii. 19 (Graylock).

78. Setophaga ruticilla. 20 (No. Adams Reservoir). 21 (do.). 22*. 25*.

79. Troglodytes aëdon. 21 (Forbes' orchard). 25*.

80. Small Hawk. 22. 24.

81. Tachycineta bicolor. 22 (Thayer's Fish-Pond).

82. Dendroica virensii. 22 (1♀ in Thayer's Fish-Pond).

83. Ampelis cedrorum. 22. 25. 28, 29.

8th Stake-driving Bittern on Beaver Brook below Rock Meadow

7th Cont. At Wayland, in the wood near the railroad cut the Marsh Blackbirds were congregated and singing in chorus, as in early spring. The meadows are flooded & perhaps the birds are drowned out & hence beginning the breeding business over again — so in flock again —

heard the sound mentioned on the 3rd. Unknown to Brewster. Thinks it may be Purple Gallinule or King Rail. Also heard the Virginia Rail and an unknown song - Kee-hee-hee followed by a hideous little laugh, sometimes twice repeated. B. says it must be either Yellow Rail or Little Black Rail, but he never heard it before!

8. In Rock Meadow this evening heard one cut-a, cut-a, cut-a, — one specimen of the Little Black Rail (?).

9. In Fresh Pond Marsh this morning heard two Little Black Rails (??)! and saw a Dusky Duck - One Savanna Sparrow. Note Meadow Larks not like Nighthawks and also Bobolinks.

12. Met Brewster in the Fresh Pond Marshes this A.M. He hunted for the Little Black Rail (?) but did not succeed in finding it - he did find Virginia Rails with young. In the evening went over to Great Meadows, East Lexington. Heard one Kee-wee and one Little Black Rail (?)!! White-bellied Swallows resting in the Signals on Fitchburg R.R., Fresh Pond Marshes!

13. Walked from Bedford over Carlisle Bridge to Concord and Lincoln.

14. To Pierpoint Swamp, Norwood. Two Common Flycatchers and about six Blue Yellow-Back Warblers. In the evening in the Neponset meadows heard two Bitterns, one Virginia Rail, many Carolina Rails, three Kik, Kep, Kik, Kik, Keers, one cut-ta, both species of Marsh Wrens, Swamp Sparrows, &c.

15. To Great Meadow, East Lexington, with Brewster this evening. One Night Heron, nothing else.

16. Went to Hingham with N.B. & B.T. Went down river in boat

Kek, kek, kik, kik, keek [or kreé]
kik, kik, kik, kee-keek [or ké-kreé]

last syllable very plaintive - sometimes repeated once

16. Heard the clucking note (like a hen) in the marsh at Wayland just above the highway bridge. Perhaps Florida Gallinule.

17.

Note the whistle sometimes heard with the bellow of the Bullfrog, but caused by inhaling the breath?

June 1859.

heard the song singing

in evening (5–9 o'clock) as far as second highway bridge. In rowing down converted a jumping Bittern into a stake-driver. I have little doubt now that the difference in sound proceeds from the different relative positions of bird, observer, and stake, in other words that it is an acoustic matter merely. On the right-hand side of the reed-weed (going west) heard as heavy as 3 kik-kik-kik-kers. No cattails here but marsh fris. Two wood Ducks. Spent night at hotel. Between 12 & 1 o'clock A.M. the long-billed marsh wrens sang vociferously as by day. Waking by 4.30 A.M. heard a Bittern so distant that only one syllable could be heard until going towards it all three became evident. The first seemed freshest, the second worst. Plum! pud-d'n; Plum pud; Plum. The first in the strofes of Jumpe-bumbe, the second strofes on a stake.

17. Two words, strongest accent on first, next strongest on first syllable of the second word. While we were listening to the kik, kik, kik last night, heard a quank which apparently proceeded from same bird. Heard the same thing at Eastp. on the 12th.
In the evening went to Muddy Brook cat-tail swamp (Brookline) with Tracy. Did not hear the kik, kik, but did hear a little quank.

18. To Prospect Hill, Waltham, this morning. Pine-siskins warbling on the hill.

19. Walked to Concord. Boat on river in P.M. Heard one kik-kik about 6 P.M. near the F.M. bridge. Very narrow margin of meadow here – grass, & fireweed-weed. Heard nothing else in way of marsh birds. Saw white-bellied swallow

Twice feed its young (?) in the air. Left
by 6.46 train.

20. To Cat-tail swamp, North St. Brookline in the evening. Heard one Virginia Rail and a Duck (Domestic?).

21. To Concord with W.B. in P.M. First went down to Great Meadows. Then up to where I heard the mystery bird on the 19th. Did not hear him till just as we were about to leave for home. None others heard. 4 or 5 Wood Ducks. Walked down from Lee's Cottage to Waverley & heard the Kirk-Rik & the cuttas in the meadows just above Clematis Brook Station.

22. To Lincoln with W.B. to search for the birds. Walked around a good portion of my farm & failed to find any trace of the bird.

23. Red-headed Nuthatch in pine woods near Turkey Hill, Arlington, some place where I saw them on May 9. Mergrew states that he has taken it in Newton Mass. in latter part of May (Natural-ist's Guide).

25. To West Concord, Mass. with W. Brewster. Took a short walk after dinner & found the following birds:—

1. Coccyzus erythrophthalmus.
2. Colaptes auratus.
3. Chaetura pelagica.
4. Tyrannus tyrannus.
5. Contopus virens.
6. Empidonax minimus.
7. Cyanocitta cristata.
8. Corvus americanus.
9. Spinus tristis.

10. Pooecetes gramineus.
11. Melospiza fasciata.
12. Passerina cyanea.
13. Petrochelidon lunifrons. (one colony in the evening near the Abby bin.)
14. Chetidon erythrogaster.
337 15. Ampelis cedrorum.
16. Vireo olivaceus.
17. " gilvus.
18. " solitarius.
19. Mniotilta varia.
20. Dendroica aestiva.
21. " caerulescens (one male singing in a Kalmia latifolia swamp.
22. " blackburniae (in grove of Pinus strobus).
23. " virens.
24. " vigorsii. One.
25. Sirus noveboracensis.
26 Geothlypis trichas.
27. Setophaga ruticilla.
28. Galeoscoptes carolinensis.
29. Turdus mustelinus
30. " ornatus fuscescens.
31. Hylocichla ustulata.
32. Turdus pallasii.
33. Saxicola oenanthe.

After supper rode over to Ashby, stopping at Mr. Horace Powers's.

26. Drove over to Mt. Watatic, spending the day there. Rainy good part of the time. The mountain is on the boundary between Middlesex and Worcester Counties (Ashby and Ashburnham), 1847 feet high, has a quite northern

Note the noisy Song Sparrows at Waterloo with a peculiar song ending with a wintery 'wit-wit-wit'

Twenty-three birds from 28. tè-te, tè-te, tè-te, tè-te, tè-te

June

flora (an "Hillsboro Flora"). A good deal of the mountain has been cleared, affording footings with second-growth Black Spruces. On the western side there is still a pretty fine forest of Spruce left. A list of the birds is given later —

27. To Mt. Watatic again. Brewster went directly to the Spruce area, while I made a circuit of the mountain, visiting a swamp on the western base where I found Blackburnian Warblers, Black-and-Yellow Warblers, and Golden-crowned Kinglets. Then found that a deciduous forest on the S E side (nothing but Blue Jays, Red-eyed Vireos, &c) and meeting B. in the Spruces further on.

28. Drove over to the swamp at base of the mountain on western side (Ashburnham). Saw and Blue Yellow-backed Warblers here.

29. Stayed in Ashby, taking a walk in P. M. Found Blackburnian Warblers, Red-bellied Nuthatches, and one Black-throated Blue Warbler.

30. Drove over to the Ashburnham Reservoir & the afore-mentioned swamp. All day.

List of birds observed in Ashby, including Mt. Watatic and edge of Ashburnham, June 25–July 1, 1889.

* Mt. Watatic only. + Mt. Watatic & elsewhere.

1. Arden virescens. One.
2. Actitis macularia (Brewster).
+3. Bonasa umbellus. Drumming on the 28th.
4. Colinus virginianus.
5. Accipiter velox. One heard, Ashburnham.
6. " cooperii. One.

×7. Buteo borealis. One.
×8. Haliaeetus leucocephalus (one, Brewster). Top of Wataitic
9. Cathartes aura. Not sure.
10. Buteo lineatus. Two.
× [Accipiter fuscus. Pete-holes, obel and mere.]
+11. Colaptes auratus.
12. Antrostomus vociferus.
13. Chordeiles virginianus. A few.
+14. Chaetura pelagica. Common.
+15. Tyrannus tyrannus. "
+16. Sayornis phoebe.
17. Contopus borealis. One heard in swamp in Ashburnham, foot of Mt. Wataitic.
+18. Contopus virens.
19. Empidonax minimus. Common.
×20. Cyanocitta cristata.
+21. Corvus americanus. Common.
22. Dolichonyx oryzivorus. "
23. Agelaius phoeniceus. One pair in meadow on road to Mt. Wataitic.
24. Icterus galbula. Not common.
25. Quiscalus quiscula aeneus. Two flying over near village.
+26. Carpodacus purpureus. Common.
×27. Loxia curvirostra minor.
28. Spinus tristis. Common.
+29. Pooecetes gramineus. Common.
+30. Ammodramus henslowi. One in wet ground in pasture on Mt. Wataitic, and another near Mr. Brooks's.
31. Zonotrichia albicollis. Rare. One or two heard, seemingly near base of the mountain.
+32. Spizella socialis. Common

+33. Spizella pusilla. Common.
×34. Junco hiemalis. Rather common.
+35. Melospiza fasciata. Common.
36. " georgiana. One, Watatic Pond (Ashburnham side).
37. Passer domesticus. Few in Ashby village.
+38. Pipilo erythrophthalmus. Common.
×39. Habia ludoviciana. One heard.
+40. Passerina cyanea. Common.
+41. Piranga erythromelas.
42. Petrochelidon lunifrons. One colony, near Ashby line, West Townsend.
+43. Chelidon erythrogastra.
+44. Tachycineta bicolor.
×45. Ampelis cedrorum.
+46. Vireo olivaceus. Abundant.
47. " gilvus. A few in Ashby village.
48. " flavifrons. One heard at Mr. Brooks'.
49. " solitarius. Not common.
+50. Mniotilta varia. Common.
+51. Helminthophila ruficapilla.
52. Seiurus noveboracensis. Five or six in swamp at foot of Mt. Watatic, Ashburnham.
53. Dendroica aestiva. One, Ashby village.
54. " caerulescens. Rare.
×55. " coronata. Several.
+56. " maculosa. Not rare in pastures with second-growth spruce on mountain.
+57. " pensylvanica. Common.
+58. " blackburniae. Not rare.
+59. " virens. Common.
+60. Siurus aurocapillus.

+61. Geothlypis trichas. Common.
62. Lanius canadensis. Ashburnham, near Mt. Watatic. Rare.
63. Ampelis cedrorum. Not very common, but several seen at Watatic Pond and other places.
64. Dendroica carolinensis. Common.
65. Harporhynchus rufus. Not uncommon.
66. Troglodytes hiemalis. One heard on Mt. Watatic, Ashburnham, by Bowler, 27th.
67. Sitta carolinensis. One, by Brooks's house, July 1.
+68. " canadensis. Several.
69. Parus atricapillus.
+70. Regulus satrapa. Not common.
71. Turdus mustelinus. " "
72. " fuscescens. " "
+73. " aonalaschkae pallasii. Not rare.
+74. Mimus migratorius. Common.
75. Galeoscoptes sibilis.

Junco hiemalis – one ♂ at Mt. Watatic divided his song into three parts ---- ---- ---- each part a quick succession of notes on same key. After singing this a while he would sing a strain in the normal style ----------. Another raised the pitch when half way thro', thus ---------- I believe I heard this last song at Spy Rock last year.

An Ammodramus henslowii near Brooks's in Ashby sang continuously thro' the evening up to 11 o'clock (!) to our knowledge. How much later can't say. See'-lik interval of 5 or 6 seconds between the repetitions. 2nd syllable carries farthest &

List of Birds observed on or near Grayback Mt., July 1–10, 1859.

38 1. Buteo borealis. 3. 4. 5. 6

2. Megascops asio. 5. heard in the evening back of Wilbur's.

3. Colaptes erythrocephalus. 8.

4. Dryobates villosus. 6.

5. " pubescens. 5. 6. 9.

6. Colaptes auratus. 2. 3. 4. 5. 6. 7. 8. 9.

7. Chaetura pelagica. 1. 2. 4. 5. 6. 7. 8. 9.

8. Trochilus colubris. 9 (one).

9. Tyrannus tyrannus. 2. 3. 5. 8.

10. Sayornis phoebe. 3. 7. 8. 9.

11. Contopus virens. 3. 6. 8. (three places)

12. " virens. 1. 2. 3. 7. 8.

13. Empidonax pusillus traillii. 8 (Horse R. above N. Adams). 9 Notch Brook (three places).

14. Cyanocitta cristata. 2. 3. 5. 6. 7. 9.

15. Corvus americanus. 3. 5. 6. 7. 8.

16. Dolichonyx oryzivorus. 7. 8. 10.

17. Molothrus ater. 10. No. Adams, young fostered by Setophaga ruticilla.

30 18. Icterus galbula. 2 (Braytonville). 8, 10 (No. Adams).

19. Carpodacus purpureus. 2. 3. 4. 6. 8. 9.

20. Loxia curvirostra minor. 6 (Grayback).

21. Spinus tristis. 1. 2. 3. 4. 5. 6. 7. 8. 9.

22. Poocetes gramineus.

23. Ammodramus caudacutus caudacuta. 2. 7. 8.

24. Junco hyemalis. 3. 5. 6. 8. 9.

25. Spizella socialis. 1. 2. 3. 4. 6. 7. 8.

26. " pusilla. 3. 4. 5. 6. 7. 8. 9.

27. Junco hiemalis. 2. 3. 4. 5. 6. 7. 8. 9.

28. Melospiza fasciata. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

29. Passer domesticus. No. Adams village.

30. Anthus spinoletta. 10. No. Adams, near Hoosac R. One.

June 1889.

Thermometer renders it *see-tip*!

July 1. Drove down to Fitchburg. B. returning to Cambridge, I to No. Adams (Mr. Wilbur's). Heard one or two Black-throated Blue Warblers in Fitchburg.

2. To No. Adams village in A.M. Rainy P.M.

3. Hard rain in A.M., clearing in P.M., when I walked over to S. side of the Bellows-pipe.

4. Heavy rain in A.M.

5. Up Greylock by turnpike & down via the Bellows-pipe. Cool, clear, wind N.W. Birds not singing much. Snowbird's nest with 4 eggs by side of turnpike ½ mile from summit. Saw young in first plumage, with streaked breast.

6. Warm, pleasant day. Up Greylock again. Birds in full song. Am Yellow-throat in pasture above Cody's & about 9 more on upper part of the mountain. Am Mourning Warbler on summit, one lower down, and several in pastures along the carriage-road & S. side of the Bellows-pipe. Have also noticed them in the sprout-land opp. Wilbur's house of Rugged mountain. Two of the Snowbird's eggs (v. yesterday) hatched to-day.

7. To Cascade on Notch Brook in P.M.

8. To meadows along Hoosic River just above No. Adams village. Traill's Flycatchers here, as last year.

9. Thru Traill's Flycatchers on Notch Brook (2 opp. Wilbur's in willows. Old nest of this bird (?) in a spruce

31. Pipilo erythrophthalmus. 1. 3. 5. 6. 8.
32. Hotin luviciana. 1. 2. 5.
33. Passerina cyanea. 1. 3. 6. 8. 9.
34. Piranga erythromelas. 1. 4. 5. 6. 7. 8.
35. Petrochelidon lunifrons. 2. 5. 7. 8. 7 nests under eaves of Sirly's long shed.
36. Chetidon cyanoptera. 1. 2. 3. 4. 5. 6. 7. 8. 9.
37. Ampelis cedrorum 1. 2. 3. 4. 5. 7. 8. 9.
38. Bombycilla garrulus. 4.
39. Vireo olivaceus. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.
40. " gilvus. 8.
41. " solitarius. 7. 8.
42. Mniotilta varia. 6. 8. 9.
43. Helminthophila ruficapilla. 1. 4. 5. 6. 8.
44. Compsothlypis americana. 1 ("Winter Rest")
45. Dendroica aestiva. 2 (Maytowville). 8 (No. Adams).
46. " caerulescens. 2. 4. 5. 6. 8.
47. " coronata. 5. 6.
48. " maculosa. 2. 3. 4. 5. 6.
49. " pensylvanica. 1. 2. 3. 5. 6. 8. 9.
50. " blackburniae. 4. 5. 6. 8.
51. " virens. 1. 2. 4. 5. 6. 7. 8.
52. Seiurus aurocapillus. 3. 4. 5. 6. 9.
53. Geothlypis philadelphia. 3. 5. 6. 8. 9.
54. " trichas.
55. Icteria virens. 8 (near No. Adams Hoosac Line).
56. Sitiurus noveboracensis. 3. 5. 6. 8. 9.
57. Setophaga ruticilla. 1. 2. 8. 9.
58. Galeoscoptes carolinensis. 1. 3. 4. 7. 8. 9.
59. Troglodytes aedon. 2. 8. (One bird. Sirly's orchard.)
60. " hiemalis. 5. 6.
61. Certhia familiaris americana. 5.

willow.

Dendroica coronata on Grey Lock, July 5th —
cree'-cree, cree'-cree, "cree" last note prolonged,
the rest rapid

July 6th

Yellow-throated Vireo on Greylock, July 6.
chit-chit-chit, wit-wit-wit'

Junco hiemalis, Greylock, July 6.
trrrr, trrrr, trrrr a trill in 3 (sometimes 4) parts. Each part like the sound produced by bringing an object in contact with a rapidly-revolving toothed wheel. At other times the bird emitted a continuous trill

Dendroica virens near Cascade, July 7, 8

te ter' te [trill] te frequently a clear finch-like trill. No variation from this.

Note — Silvanian coronatus and Junco hiemalis just above Cascade — Notch Brook — July 8th. One Swainson's Thrush singing in woods just below the Cascade on same day.

10. Went to Greenfield, village of pine plains.
11. Rainy. Walked in A.M. over to the River. In White Pine woods near the River found Dendroica virens, D. vigorsii (cree), D. blackburniae (one or two in song) and a peculiar Vireo that kept in the tops of the tall pines in spite all my attempts to throw him down. His song might have been an abnormal form of V. olivaceus, philadelphicus, solitarius, or flavifrons! Two phrases

62. Sitta canadensis. 5. 6.
63. Parus atricapillus. 4. 5. 6.
64. Regulus satrapa. 3 (Nest just above Hilton's). 5, 6 (Hoylake).
65. Turdus mustelinus. 1. 2. 6. 8.
66. " fuscescens. 1. 2. 3. 5. 6. 7. 8.
67. " ustulatus swainsonii. 5. 6. 8.
68. " aonalaschkæ pallasii. 1. 2. 3. 4. 5. 6. 7. 8. 9.
69. Merula migratoria. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.
70. Sialia sialis. 3. 4. 5. 6. 8. 9.

List of Birds observed in Greenfield, Mass., July 10–11, 1889.

1. Coccyzus (erythrophthalmus?). Heard.
2. Ceryle alcyon.
3. Dryobates pubescens.
4. Colaptes auratus.
5. Chætura pelagica.
6. Tyrannus tyrannus.
7. Sayornis phœbe.
8. Vireosylva virens.
9. Empidonax minimus.
10. Corvus americanus.
11. Dolichonyx oryzivorus.
12. Icterus galbula.
13. Spinus tristis.
14. Poœcetes gramineus.
15. Ammodramus s. savannarum.
16. " s. passerinus. One.
17. Spizella socialis.
18. " pusilla.
19. Melospiza fasciata
20. Passer domesticus

July 1889.

minutely repeated, with an occasional perfect imitation of the "quait" note of the Bobwhite & Flycatcher. At times he chattered (Vireo-fashion) and then would sing a beautiful warbling song - Probably solitarius, but the calls were quite different from the normal Solitary's. Returned to Waverley in the P. M.

See Aug. 2 + Aug. 12

13. To Fresh Pond marshes in evening. Saw one Green Heron on the wing, one Long-billed Marsh Wren (they are not singing now), heard a Carolina and a Virginia Rail call. Also heard a grasshopper (?) Kit-tik, Kit-tik, Kit-ti-Kik' at 7.45 o'clock. Common resemblance to the cuck-uk of Carolina Rail (?). A good many of these grasshoppers (?) in use lately in the marsh. Swamp Sparrows in full song.

Virginia Rail

14. Noticed a good many Robins in small flocks after sundown flying over in a N W direction at a considerable height. Already "roosting"!

See Aug. 3.

16. To Fresh Pond marshes this evening with Brewster and Pierce. Failed to hear the kit-ik of the 13th. It was probably the Carolina Rail (perhaps a family with young), not a grasshopper.

Va. Rail

17. With B. T. to Wayside Inn, Sudbury, & over Nobscot Hill, & around to South Sudbury. In the Pine woods near Wayside Inn Station heard one Blackburnian Warbler sing twice & we were not able to get a sight of him. Heard a Red-eyed Vireo here sing a pretty warbling song. Solitary Vireo in song.

18. To Winnisimmet woods, Arlington, in the morning. Vireo solitarius feeding fledged young, & singing.

19. To Nahant in P. M. with B. T. Saw two Great Northern Divers (?), one bird that looked like a Holböll's Grebe or a Red-throated Diver, Savannah Sparrows, Song Sparrows, Spotted Sandpipers, & Herring Gull. Nothing else

21. Habia ludoviciana.
22. Passerina cyanea.
23. Piranga erythromelas.
24. Chulidon erythrogaster.
25. Clivicola riparia.
26. Ampelis cedrorum.
27. Vireo olivaceus.
28. " gilvus.
29. " flavifrons. Ore.
30. " solitarius ♂♀. Ore. Sin Jos, 11.
31. Mniotilta varia.
32. Dendroica pensylvanica.
33. " blackburniae.
34. " virens.
35. " vigorsii.
36. Siurus aurocapillus.
37. Seiurus noveboracensis.
38. Helmitheros vermivorus.
39. Sitta carolinensis.
40. Parus atricapillus.
41. Turdus swainsonii.
42. " fuscescens.
43. Merula migratoria.
44. Sialia sialis.

22. To Wayland in the morning. Both the Thrushes were singing, & Swarms of Sphinxes. Saw the Bitterns.

20. The birds appear to me to be singing more this month than in most in July. The summer has been a wet one – perhaps that is the reason. Since the 18th I have heard the following birds singing:–

Robin (freely)
Wilson's Thrush (I ref think he is singing now)
House Wren (persistently)
Catbird (pretty freely)
Maryland Yellowthroat
Black-throated Green Warbler (freely)
Black-and-white Warbler (14th, 18th, 22nd, 25th; both songs)
Chestnut-sided Warbler
Prairie Warbler (16th)
Blackburnian Warbler (17th)
Yellow Warbler
Pine Warbler (22nd, one) Redstart (25th)
Chipping Sparrow
Field Sparrow (freely)
Song Sparrow
Swamp Sparrow "
Towhee
Savannah Sparrow
Yellow-wing " (17th)
Indigo-bird
Bay-wing Sparrow
Goldfinch
Scarlet Tanager
Meadow Lark (freely)
Least Flycatcher

July 1889.

Wood Pewee
Red-eyed Vireo (persistently)
Warbling Vireo
Yellow-throated Vireo
White-eyed Vireo
Solitary Vireo
Chickadee
Cuckoo
Lark (freely)
Long-billed Marsh Wren (22nd)
Short-billed " " (22nd)
Flicker (shouts out "wick-er")

August
1. Went to a certain "roost" in Norton's Woods, Cambridge, this evening with Mr Chamberlain, and hundreds of robins, together with some Crow Blackbirds and Baltimore Orioles. At 7 o'clock a large part of the birds were already in, but others came by ones, or twos, or threes, until (towards) 7½ o'clock. Up to that hour they had not become settled in the roost but were constantly fluttering about, occasionally singing. The trees upon which they settled are those near the three Oaks. Sat on now flying oranges.

2 Walked from Cambridge to Hill's Crossing in the S. W. Saw three or four Night Herons, and two Virginia Rails close to the Fitchburg R.R. One was close to the track & by wading in I separated it from the other. Then they called to each other loudly. The kik-ik that I heard July 13 is a call-note of this bird. Perhaps kek'-kek'; kik'-kik, kik'-kik, kik-e-kik' would express it better. Besides this call they gave out a shrill kkah or kah and at times almost a whistle.

cf. Aug. 12

6 Aug. 1889. Cor. White & Beech St., Waverley -

	7	6.35 P.M.
	8	
	4	
45	12	
	4	
	4	
	6	
	8	6.45 P.M.
	14	
	7	
	5	
	3	
	4	
	4	
	9	
89	4	
	8	
	11	
	6	
	10	
	5	6.50 P.M.
	10	
	20	
	14	
87	4	
	7	
	9	Sunset, 6.57 P.M.
	15	
	9	7.00 P.M.
	8	
	29	
87	13	
	23	
	5	7.05 P.M.
	36	
	6	
	13	
	4	
	6	
109	10	
	13	
	8	
	9	
	4	
	10	7.10 P.M.
	8	
38	11	
	5	
	4	7.15 P.M.
	455	

August 1889.

3. The Waverley Robin "roost" is on Beaver Brook, 3/8 m. above the upper mill-pond on Mill St. Brewster tells me this an old locality, & there used to be another enormous one in the Fresh Pond Swamps. Once (during the '70's) he estimated that 25000 birds entered this roost from one side alone! Torrey has found one this year in Melrose with 20000 birds. The Cambridge (Norton's Woods) roost is smaller. B. says they begin to congregate at least as early as July 4.

5. Counted 140 Robins from the piazza after 7 P.M. flying over to the roost on Beaver Brook. Also saw a large flock of Blackbirds heading towards Clematis Brook Station, and an Night Heron flying to the Eastward.—

6. — Walked in P.M. with B. & D. One Hawk (Sharp-Shinned), a good many Spotted Sandpipers, and four Semipalmated Plovers. One of the Sandpipers and one Plover had broken leg! S— the gunners! In the evening I took my station on the verandah at 6.30 and saw, I think, the beginning of the flight of Robins over the place on their way to the roost on Beaver Brook. The roost is about one-eighth mile from the house in a bee-line. The flight began at 6.35 and lasted till 7.15. The birds went over in little flocks about as represented below (opp. page), but some singles and pairs were incorporated with the following flock. The roost must be much larger than I had judged, seeing that 456 birds were counted from one station 1/8 mile away. Many of the birds fly at a great height. Those that approach from E. to S.E. take a direct line over Waverley Hill. Those from the S. seem to follow up the Beaver Brook.

valley, heading first for the Thayer estate, then swing-
ing around to the right.

The condition of the brooks & swamps now is, I think,
unprecedented. They are as full as in early spring.

7. To the Lincoln woods, Arlington, in the A.M. Two Solitary Vireos, both in full song, there, where I saw one feeding a young one on the 18th July. Were they both old males been disappointing? Went to Flash Pond swamp in the P.M. Saw no indications of a Rail in west there altho' I stood till nearly 7 o'clock. Heard the Kik-ik of the Virginia Rail.

8. Walked from Bedford to Carlisle village and return. One Sitta canadensis (seen) singing in the swamp on the Bedford side of the River, right hand side of the road going toward C. Heard the Kik-ik of the Virginia (?) Rail near Carlisle Bridge.
The Bedington people tell me that the Purple Martins left their home three or four days ago. There were none about the box on Mr. B's place this morning.

9. To Weyland. One Sitta canadensis. Colony of about eighty nests of Petrochelidon lunifrons. These birds seem to be mend the supporting cleats that the farmers nail along under the eaves for them. In the case seen to-day the cleat had been torn off in one place and replaced by some thin pieces nailed ~~bottom~~ side against the wall. These seemed to suit the swallows well! They were seemingly feeding their young in the nests. Saw no signs of the Bank Swallows about their holes in the gravel bank. Many of the holes grown up to cobwebs. A few Long-billed Worm-eating but no Short-bills.

10. About 390 Robins flew over to-night between 6.40 and 7.15.

11. To Linnaea Wood, Arlington, — the A.M. Saw a flock of birds among the pines — made up of Chickadees; Black-&-white Creepers, Ovenbirds, Black-throated Green W's, Nashville W's, Redstarts, Red-eyed Vireo, Yellow-throated Vireo, and one Canada Flycatcher. Torrey has seen a Yellow-rump Warbler (full-plumaged ♂) in Melrose within a few days. Are these early August Canadian birds migrants or merely rovers? Or Yellow-rumps, Canada Flycatchers, Red-bellied Nuthatches, etc. breed within a short distance from here (Mt. Watatic, for instance) it seems to me that they are not necessarily on their way South now. After their family cares are over perhaps they wander over a considerable area in search of food.

Counted 556 Robins from the piazza to-night, flying over to the west. The first bird flew over at 6.25 o'clock; then none until 6.35. Between 6.35 and 6.40, 50 birds passed; 6.40–6.45, 16; 6.45–6.50, 77; 6.50–6.55, 30; 6.55–7.00, 336 (!); 7.00–7.05, 41; 7.05–7.10, 4; 7.15, 1. By 8 o'clock a great many were in the big oaks; these are probably birds that have spent the day in the neighborhood, preparing to depart for the south, while those that fly over the town late probably come from a distance. Also saw two ducks flying to the westward. Sunset, 6.51.

12. Walked out from Cambridge to Belmont in the afternoon. Heard the Virginia Rails kik-kik in two or three different places in the Fresh Pond swamps. The birds are surely Virginia Rails as I have determined by examination of specimens in the Museum. Brewster, moreover, tells me the kiah note is diagnostic of this species. How

List of birds observed near Willoughby Lake, Vermont, Aug. 13–26, 1889.

× = singing

1. Ardea herodias. 16, one in swamp, Sutton.
2. Totanus solitarius. 15, one on edge of pond back of Will. Lake Ho.
3. Bonasa umbellus. 14. 15. 17. 18 (drums). 19 (drums). 20, 22. 23.
4. Circus hudsonius. 23. 26.
   Large Hawk. 17. 18, 19. 21, 22
5. Medium-sized Hawk. 14. 19. 23.
6. Small Hawk. 15. 16. 17. 19. 20. 22. 23. 25.
7. Falco peregrinus anatum? 26, one in swamp, Sutton.
8. Coccyzus (erythrophthalmus?). 15×, 24.
9. Ceryle alcyon. 14. 15. 16. 18. 19. 21. 22. 24.
10. Dryobates pubescens. 14. 23.
11. Sphyrapicus varius. 15. 16. 18. 22. 26.
    Ceophloeus pileatus. (peck-holes, old & new.)
12. Colaptes auratus. 16 (shouts). 17 (do.). 18 (do.). 20. 22 ("wicker"). 23. 24 (shouts and "wicker"). 25. 26 (shouts).
13. Chordiles virginianus. 23 (two). 26 (four).
14. Chaetura pelagica. 13. 14. 15. 16. 17. 19. 20. 22. 23. 24. 25.
15. Trochilus colubris. 18. 21. 23.
16. Tyrannus tyrannus. 16. 18. 20. 22. 23. 24.
17. Myiarchus crinitus. 15. 26.
18. Sayornis phoebe. 20. 26.
19. Contopus borealis. 16. 20.
20. " virens. 17. 20.
21. Empidonax flaviventris. 15. 20.
22. " pusillus traillii. 14. 15×. 20. 23. 24×. 25. 26×
23. Cyanocitta cristata. 14. 15. 16. 17. 18. 19. 20. 22. 25. 26.
24. Corvus americanus. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26.
25. Carpodacus purpureus. 14×. 15. 16. 17. 18×. 21. 22×. 23. 26.
26. Loxia curvirostra minor. 16. 17. 18. 20. 21. 22.
27. " leucoptera? 25 (one).
28. Spinus tristis. 14. 15. 16. 17. 18. 19. 20. 21×. 22×. 23×. 24. 25. 26.

the resemblance of the kik-kik is so close to that of the mysterious June bird that I suspect it may be the same. See June 12. This will give us a real song (kik-kik-kik-ki-keer') for the Va. Rail. The notes we now hear are kik'-kik, kik'-kik (this disyllabic form resembles the cut'-ut of the Sora), sometimes kik'-i-kik' or kik'-i-ki-kik', again kek'-kek'.

13. To Willoughby Lake, Vt. with E. F.

14. Rainy. To the "White Slide" on Mount Hor in the morning, also to "Churchill's Cave". Down the West Burke road a mile or so in the afternoon. Two Traill's Flycatchers in swamp. Hylas (?) peeping. Chestnut-sided Warbler feeding young. Noticed a small White Spruce in a thing in shape in color from the Black Spruce — separated by screens of the smooth terminal twigs.

15. Rainy. Up the Willoughby Mt. path in the A.M. as far as the first look-off. In the P.M. to the swamps on the W. Burke road. Everywhere flaviventris feeding fledged young and uttering the "fee" note. The true song of this species is undoubtedly the "tit-tic". Traill's Flycatcher still sings intermittently. Red-eyed vireos and R. Grosbeaks are feeding their young. Saw a Robin nest on a beam in a shed containing three unfledged young. What is the note we often hear, at first suggesting a Hyla, but as it is repeated becoming broken and guttural? It is not the sound referred to yesterday, but sounds like some young (?) bird — comes from the trees — Hyla versicolor?

16. Day in the Calypso swamp on the Burke road. Pleasant.

29. Poecetes gramineus. 13.16.17.18.20.21.25.26.
30. Ammodramus savannarum sandwichensis? 17.
31. Zonotrichia albicollis. 14x.15.16x.17x.18.19.20x.21.22.23.24.25.26.
32. Spizella arvalis. 13.16.17.18.20.21.22.24.
33. Junco hiemalis. 13.14.15.16.17x.18.19x.20.21.22.23.24.25.26.
34. Melospiza fasciata. 14.15x.16.17.18.19.20.21.22.23x.24.25.26.
35. " georgiana. 17.18.
36. Habia ludoviciana. 14.25.
37. Passerina cyanea. 14.16.17.18.19.20.21.22.23x (aërial song).24.26.
38. Piranga erythromelas. 15 (one ♂, "chip-chur").
39. Chelidon erythrogaster. 14.15.16.17.18.19.20.21.22.23.24.
40. Ampelis cedrorum. 13.14.15.16.17.18.19.20.21.22.23.24.25.26.
41. Vireo olivaceus. 14x.15x.16.17x.18x.19x.20x.21x.22.23x.24x.25x.26x.
42. " solitarius. 15x.16x.20.21x.22.23x.
43. Mniotilta varia. 13.14.15x (longsong).16x.18x.21.23x+x.24x.26x.
44. Helminthophila ruficapilla. 14.16.17x.18.23.26.
45. Compsothlypis americana. 17.20.22.23.24.
46. Dendroica caerulescens. 17(18).18(18).20(18).22(18).23(18).26(22,49).
47. " coronata. 16.17.19.22.24.26.
48. " maculosa. 16.17.19.20.22.24.26.
49. " pensilvanica. 14.16.21.22.26.
50. " blackburniae. 15.17.18.19.20.21.
51. " virens. 14.15.16.17.18.19.20.21.22.23.25.26.
52. Siurus noveboracensis. 15 (one). 26 (one).
53. Geothlypis trichas. 14.15.16.17.18.22.26x (aërial song).
54. Sylvania pusilla? 24 (one).
55. " canadensis. 14x.16x.17x.19x.20x.24x.
56. Setophaga ruticilla. 15.16.18x.22x.23.24x.25x.26.
57. Galeoscoptes carolinensis. 16.17.20.24.26.
58. Troglodytes hiemalis. 14.15.18.
59. Certhia familiaris americana. 15.20.23.
60. Sitta carolinensis. 16? 26.

An Great Blue Heron, three Hirundinaria Tetmice among a large number of Black-capped Chickadees. Note the Yellow bellied Woodpecker's habit of sallying forth from a tall stump to catch insects in the air.

17. Down the Burke road a piece in the morning and again in the afternoon. Cedar birds and Black-&-yellow Warblers feeding flight young. The characteristic notes of the young Goldfinches (a latter-summer sound) is now heard. Showery.

18. Pleasant. Heard a Partridge drumming.

19. Lowering weather. Found Golden-crowned Kinglets in two places - hill to the east of the Burke road, and in Black Spruces near the Van Cordale college. Partridge drumming again - different place.

20. Pleasant. Down to the swamps towards Mt. Bank all day.

21. Rain in A.M. Saw the Chestnut-sided Warbler in young orchard flowers.

22. Rain. To Newark Pond, etc. The young Robins mentioned on the 15th have flown.

23. Up Willoughby Hill in the A.M. Golden-crowned Kinglets singing their breeding-season song near the spring. Pleasant.

24. Pleasant. The Yellow-rumped Warblers now frequent the beech trees especially. The beeches are entirely stripped of leaves by some insect.

25. Pleasant, cooler. An White-winged Crossbill (?) near the Van Cordale college this P.M. Could not see him very well, but noted the light markings and note different from Red Crossbill as he flew.

61. Sitta canadensis. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26.
62. Parus atricapillus. 13. 14. 15x. 16x. 17x. 18x. 19. 20x. 21. 22x. 23x. 24x. 25. 26x.
63. " hudsonicus. 16 (three, in swamp, Sutton).
64. Regulus satrapa. 19. 20. 23x. 25.
65. Turdus fuscescens. 16. 17.
66. " ustulatus swainsonii? 15 (one).
67. " aonalaschkæ pallasii. 14. 15. 16. 18. 19. 22. 26.
68. Hylocichla mustelina. 13. 14. 15x. 16. 17. 18. 19. 20x. 21x. 22. 23. 24x. 25. 26.
69. Sialia sialis. 16. 20. 26.

26. Pleasant. To Calypso Swamp all day. Hawk apparently Duck-Hawk. Altho' there are many Indigo-birds here now, I have not seen one full-plumaged male.

27. Returned to-day. Saw no House Sparrows at West Brush where I found them in June, 1885.

28. To the Linnæan Woods, Arlington in the morning. Vireo flavifrons and V. gilvus are singing pretty freely. Full-plumaged ♂ Dendr. virens. Counted the Robins again this P.M. flying over on their way to roost, with the following result. At times they formed in such large numbers that I failed to get them all down:—

6.15 P.M.	2
6.20 – 6.25	168
6.25 – 6.30	169
6.30 – 6.35	456
6.35 – 6.40	205
6.40 – 6.45	110
6.45 – 6.50	70
	1180

Sunset, 6.24 P.M.

29. Went to the Robin roost to-night. The birds began to arrive by 5.50 o'clock. The early flocks would light only to move away again, taking flights of greater or less duration & returning again – & I found it impossible to make any counts. Fully as many seemed to come from the Lexington direction as from Waverley. The roost is about 1/8 mile in a straight line from the house where I live. Also 50± Crows flew over passing higher

up the valley of Beaver Brook.

This morning I saw a weasel among the willows along the Concord Turnpike in Rock Meadow. He would run up one of the willows hastily as far as the branches, then down & up the next tree & so on, as if in search of nests or something of the sort.

30. To the Fresh Pond swamps for a little while in the P.M. Saw one Solitary Sandpiper, no Swamp Sparrows, Bluebirds, or Rails. Count of Robins from the fringe to-night:—

5.52 – 6.00	76
6.00 – 6.05	48
6.05 – 6.10	40
6.10 – 6.15	73
6.15 – 6.20	153
6.20 – 6.25	229
6.25 – 6.30	156
6.30 – 6.35	59
6.35 – 6.40	4
	838

Sun set 6.21 in fog-bank

31. Only 450 Robins in my count to-night. The sun again set in a bank of haze and the Robins flew for the roost fast at a great height—many being just discernible. Bittern Sept. 13 & many that half of them were beyond my reach. Why should they fly higher in hazy weather?

Sept.

1. Saw one Kingbird this morning, a young bird. Most of them left several days ago. Towards 8½ o'clock in the evening went to the Robin roost, taking a station on the side towards Mr. Moore's. The birds came in clouds—utterly impossible to attempt to count them.

I counted from the fringe 5-right only, 355. I went into the edge of the roost and found a good many Brown Thrushes there. It is a wet, swampy piece of ground where one would not expect to find these birds – so I infer that they have a habit of congregating to roost, like the Robin. The Thrushes omitted their characteristic chuck and also an uncanny sound between a blowing & hissing – very serpent-like.

2. Counted (with aid of an assistant) the Robins this afternoon from the rocky knoll between Mr. Morse's and the Cascade – not far (½ mi.) from the roost. The count must be taken only as an approximation to the truth:–

5.45 – 5.50	9
5.50 – 5.55	6
5.55 – 6.00	106
6.00 – 6.05	253
6.05 – 6.10	405
6.10 – 6.15	304
6.15 – 6.20	252
6.20 – 6.25	191
6.25 – 6.30	214
6.30 – 6.35	38
6.35 – 6.40	5
	1883

Sunset 6.16 in bank of haze. Birds flying high.

3. To Linnæa Woods, Arlington in A.M. The Black-throated Green Warblers were singing quite freely. Great many White-bellied Swallows towards evening feeding in the air in Lowerly village. Probably migrating birds. Towards six o'clock observed entirely around the Beaver Brook Robin roost. The birds come in from all sides – Belmont, Watertown, Waltham, Lexington, and Arlington. The Crow roost is higher up the valley, on the western

side of Rock Meadow.

4. To Wayland in the morning. A Meadow Lark and a Pine Warbler singing, the latter freely. Saw Black-poll Warbler. Saw nothing in the meadows but a Swamp Sparrow. Count of Robins from the piazza, 538. The flight began at 5.35 and lasted till 6.30. Sun again set in bank of haze - Warm.

5. To Ipswich Beach (Geo. Wordsworth's) for a week or so, with B. T. Warm; wind SW. On the beach in the afternoon; many Semipalmated Plover and Sanderlings, fewer Semipalmated Sandpipers. Numerous Herring- and Black-backed Gulls and a good-sized flock of Common Terns.

6. Weather like yesterday. Over the salt-marshes, Hawk Island, &c. in the morning. One Great Blue Heron in the marshes. Large numbers of White-bellied Swallows; with them some Barn Swallows and one Eave Swallow. One Black Tern brought in by a gunner. Saw an Osprey among the trees of Hawk Island, and no Herons' nests, but a good deal of their excrement and feathers under the trees. P.M. Saw two Jaegers harried on the beach something like a Ring-neck Plover, also two Black Terns with white lower parts. The Wilson's Tern have a "big" voice, their ordinary "Tarr". The note of the Sanderling is a whit, of the Semipalmated Plover a more musical dissyllabic whistle which recalls the song of the Carolina Rail.

7. East wind, foggy. On the beach morning and afternoon. Watched two Jaegers pursuing the Terns. Also two other Jaegers all dark beneath. Two ducks with white on wing, pretty white-winged Scoters. Watched the Terns fishing; they carry their bills directed downwards nearly at right angles to axis of body, turning it from side to side. Seizing a small fish crosswise in the bill, they frequently drop it and recover it before it reaches the water. They often plunge wholly beneath the surface when they capture their prey.

Sept. Both the Herring and Black-back Gulls show a large proportion of gull-plumaged birds. Big colony of seal on one of the bars - many of these seals show a good deal of white color. Note the sand-colored beast with light-yellow hind wings marginal with black - also his very light-colored legs, ordinarily adapted to concealment in the sand.

8. Fair, wind NE. On the French this A.M. we saw one Black-bellied Plover (very shy). Sky Island in P.M.

9. Cloudy, wind NE. Walked up the road to Ipswich as far as Break-heart Hill. Myriads of White-bellied Swallows in the marshes, resting on the wire fences, in the wood, in the bare spots in the meadows, among the sand-hills, &c. When I chirped they flew around my head like a swarm of insects. A good many Sandpipers strolled a little way inland. In the afternoon we went to the beach. Saw about five Black-breasted Plover (Charadrius squatarola), one in gray plumage at near range. Did not notice any bowing motion like that of the Killdeer and Semipalmated.

10. Cloudy, wind NE, light rain in P.M. To beach in A.M. One member in P.M. A flock of Ereunetes pusillus and one Tringa minutilla in the marsh about the little mud spots. Shot one of each for comparison. Tringa minutilla - smaller and darker than E. pusillus, bill slenderer, more decurved, not so much flattened or spoon-shaped at tip; tarsus and toes yellowish-green (toes not webbed), much lighter color than in E. pusillus. Ereunetes pusillus - tarsus and toes fuliginous (toes semipalmate), tarsus dark greenish on anterior face; white line over eye more conspicuous and white of throat running over more upon side of head so that in profile view more white shows than in T. minutilla, in which

14. W. East, seen at one cloud. The robins flew low, seeing towards the end of the flight skulking in towards the roost through the trees.

the side of the head is darker.

11. Wind N.E. Light rain in A.M., Cloudy in P.M. Another Black Tern (in light-colored plumage) shot by one of the gunners. Stood within twelve feet of a flock of Bremetes pusillus. Four Pectoral Sandpipers in the marsh. Not shy, crouch when startled. The swallows are now collected in the sand-hills in the largest numbers yet observed – they are apparently collected by the million. Ellsworth, the light-house keeper says he once saw them take their departure. It was between 3 and 4 o'clock P.M. He describes them as circling upward in the form of a great funnel until out of sight – the next day not a swallow to be seen!

Sept. 26

12. Wind N.E. Light rain in A.M., Cloudy in P.M. In the evening the intermittent "chips" note of the passage of Warblers. They seemed to be flying very low, even sounding as if down in the grass! The weather was cloudy but not foggy nor hazy. Ellsworth says that birds very seldom strike the Jeffries Ledge light. Also heard the note of the Ring Plover several times, and note a dove by a gunner to be that of the Upland Plover – these four musical notes ö o ö

13. Returned in A.M. To the Fresh Pond swamps in P.M. No Connecticut Warblers. Two Long-billed Marsh Wrens (singing!). Only 84 robins passed over the plain this morning! It looks as if many had already moved south.

14. Counted the Robins from the knoll between Morse's and the Cascade – 419, against 1883 on Sept. 2!

15. To Lincoln Woods, Arlington, Va. Heard the following birds

Sept.

sing: Vireo gilvus, Dendroica virens (in two places, three or more birds), D. striata (one bird, three times), Melospiza fasciata, Melospiza georgiana (once), Parotirea cyanea (twice), Contopus virens. Dendroica striata is now common and generally distributed. 84 Robins, again, passed over tonight, as follows: 5.50-5.55, 5; 5.55-6.00, 54; 6.00-6.05, 23; 6.05-6.10, 0; 6.10-6.15, 2. Sunset, 5.53. Clear. The birds flew low, most of them over Mr. Watts's, many alighting in the trees on that place before foraging on. Mr. Torry writes me that the Melroe roost is also well-nigh deserted.

16. To Nahant in A.M. Warm, SW wind. Very few birds. Large flock of Terns, two Semipalmated Sandpipers, Savannah Sparrows, one Sparrow (?) Hawk, and a flock of four Titlarks, the last feeding on the drift at high-water mark on the beach. In the P.M. saw another Sparrow (?) Hawk in Waverley and a Redstart (♀). Counted the Robins coming from the roosting-place near the Cascade:— 5.45-5.50, 6; 5.50-5.55, 46; 5.55-6.00, 71; 6.00-6.05, 35; 6.05-6.10, 23; 6.10-6.15, 9; total, 190. Wind SW, sun set in cloud no fog or haze. The birds all flew very low, almost all of them scudding along thro' the trees by Beaver Brook, at the height of, or lower than, the top of the knoll on which I stood. Some of them were grazing the top of the knoll, owing to the method of flight I undoubtedly missed a good many birds, but it is clear that the roost is on its last legs. For the last few evenings the lisp of the migrating Warblers (probably Blackpolls) is heard even thro' my open windows. The sounds seem to come from no great height in the air, but this may be illusive.

1859

Zonotrichia leucophrys on Cape Cod (J. L. Miller, Jr.), No. Truro.

Sept. 30 1 young ♀

Oct. 10 " " "

" 11 [illegible] young ♂

" 15 3 taken + another seen

17. To Fresh Pond swamps in the morning. No Connecticut warblers, "Autumnal Warblers" extremely abundant. Saw one Summer Yellowbird, two Water Thrushes, and heard the Carolina ~~and Virginia~~ Rails, the ~~former~~ latter only once ("Ker-wee") and whistled once. Long-billed Marsh Wrens and Swamp Sparrows singing. From the piazza in the evening counted only 53 Robins!

18. Rainy. In the afternoon I walked to Arlington Heights by way of Marsh St. and around by Clifton St. and Belmont. Saw a Canadian Warbler, House Wren, a small Hawk, &c. Heard an Indigo-bird sing with vigor. Also Night-hawk. While on the railway between Belmont and Waverley 187 Robins flew over between 5.25 and 5.35 o'clock. Saw about 30 more afterward from the piazza of the house.

19. Rain in the morning clearing off cold towards noon. In the afternoon walked thro' Rock Meadow and to Arlington Heights via Appleton St. and back across the fields. Two Carolina Nuthatches in the Waverley Oaks, two Blue Yellow Backs, one Blackburnian, and two Yellow Rumps. Also saw a small (Sparrow?) Hawk + 3 Water Thrushes, Song Sparrow, Bay-winged Bunting and Pewee singing. On the way home from Arlington Heights about 6½ o'clock saw a great many Robins on their way to Beaver Brook. The roost is not yet deserted by any means. All the Robins I have scrutinized to-day seemed to be old birds.

20. A large number of Robins among the Waverley Oaks this morning — almost all of them bright-colored adults. Are they birds that have just arrived from more northern regions?
To Wayland by the 9.45 train with B. T. Found no Marsh Wrens in the meadows. Saw quite a number of White-bellied Swallows, also a flock of Rusty Grackles and one Bittern. Viola fatmata and Rhexia ottomelia, the former in blossom.

21. To the Fresh Pond swamps in the morning. Great numbers of Robins and Song Sparrows, and flocks of Rusty and Red-winged Blackbirds. The Black-poll Warblers much less abundant than they have been for a few days past. Two Coots among the cat-tails near Hill's Crossing. They flutter over the surface of water like ducks, also seen swimming. Saw two Carolina Rails. The first one was feeding, in the water up to his belly, uttering a low cuk. The second was among the thick flags. Heard the whinny several times, once drummed by the ♂ ♀. Also heard the kik-kik of the Virginia Rail (?). In the afternoon went to the same place again. Saw the two Coots and a Carolina Rail close to the edge of the Central Mass. R.R. embankment. He mounted a small fallen limb of a tree and stood there crying ure for several minutes within a few feet of me. Then he walked along the limb like a hen and flew, dangling his legs. Tail continually jerked up as he stood on the limb. As the Coots swim (very deep-like), they move heads forward, apparently with the movement of the legs. When the Rail alighted after his flight I threw stones to the place where he went down and he emitted a bitter cry, kwah. Once I heard in connection with the reed-birds sounds so much like the cut-ter heard last June that I have no doubt that Forbush is right in thinking them to proceed from the Carolina Rail. Do the Carolina have kik-kik notes as well as the Virginia? I could not place the Virginia in this place nor did I hear its "pig-like cry".

22. To the Cottage Woods, Arlington, this morning. Two White-throated Sparrows, the

first seen. A Humming-bird flew into the Agassiz Museum this afternoon.

23. Walked to Waltham in the morning, around Prospect Hill. By the little brook near the school house at the corner of Kimball and Lincoln Sts. I fell in with quite a little company of birds — one male Black-throated Blue, Black-throated Green, one Black-&-yellow, one Pine Creeper, Black-poll, two Blue-headed Vireos, White-throated Sparrows, Catbird, Blue Yellow-back, etc. Afterwards saw another Blue Yellow-back, a Blackburnian, two Golden-crowned Thrushes, etc. In the afternoon, coming from Boston I stopped at West Cambridge and looked into the Fresh Pond marsh again for Connecticut Warblers — but vainly. There seemed to have been quite an arrival of White-throated Sparrows last night.

Note the characteristic motion of the tail of the Black-poll Warbler. I never noticed it in spring or summer.

24. To Marblehead in the morning. Many (15±) Titlarks feeding on the beaches among the sea-weed. Saw Sanderling and three Semipalmated Plovers. Also a flock of birds that may have been Cormorants — smaller than Canada Geese, dark colored, flew in irregular flock (SW) with a tending to form a ⟶. Sometimes they set their wings — sailing. Savannah Sparrows extremely abundant. Spent the afternoon in the Fresh Pond marshes. Saw Coot in the place where I saw two last Saturday, and three more in Alewife Brook between the Maine Central and Fitchburg R.R. Saw a Wilson's Snipe which had just been shot by some boys. Saw Indigo-bird, Song Sparrows, and White-throated Sparrows singing the latter quite well. The movement of the Coot when swimming is like that of a swan.

25. Brewster says the Yellow Redpoll was probably D. palmarum, as Lyphrhynsea does not arrive before October. (But see Sept. 25, 1840)

25. To Rock Meadow in the morning. One Hairy Woodpecker, one Yellow-bellied Woodpecker, one Yellow Red-poll Warbler, one Prairie Warbler, one Black-and-yellow Warbler, and a covey of Bobwhite in a juniper bed. The Prairie warbler had a marked way of the tail, like a Yellow Red-poll. Came out from Boston to Arlington Heights in Pike, & walked to Waverley. Met many Golden-crowned Kinglets in Pitch Pines. Count of Robins from Fring'g in Pike, :—
5.15–5.20, 28; 5.20–5.25, 38; 5.25–5.30, 2; 5.30–5.35, 7; 5.35–5.40, 34. Total, 109. Sunset, 5.36. Wind east, cloudy.

One warbler

26. Went thro' the Fresh Pond Marshes this morning, with the two dogs. Three Bittern, two Snipe, Rails, and great abundance of Swamp Sparrows. The Carolina Rail is a most versatile vocalist — besides his prey (ee-ee) and whinny, he has a little a cuk, cuk, and (if I mistake not) a kik-kik, a kek, and a kerak'. I find no Virginia Rails now, and attribute all these notes to the Carolina. The Black-poll Warblers now have a tsit and a note of alarm between a chip and a chuck. The crows are chucking now as in Spring.

Benj. Ellsworth, the light-house keeper at Ipswich Beach, writes to me as follows about the departure of the White-bellied Swallows: "The first large flock of birds went the morning of the 14th — the same morning you left. Since then, or on the morning of the 19th, I saw a smaller flock getting together in the duck-pond; they have gone. It has been my first experience in seeing the birds break up into different flocks — they always have all gone together."

27. To Mead's Pond in A. M. One Regulus calendula and one Tardus alicia (?). Green Herons and young Spotted Sandpiper on the edge of

the pond. Three Ruffed Grouse.
Counted 251 Robins from the knoll near the nest. During the latter part of the time the birds alit in the trees before reaching my station and skulk in thro' the trees, following the brook up, so that I could ~~see~~ see but a small part of them.

28. To Fresh Pond in A.M. A boy had just shot a Wood Duck on Glacialis when I arrived. Flock of twelve Blue-winged Teal (?). Three or four Fish Hawks over the pond. Watched them catching fish — sometimes they were entirely submerged when they struck a fish. Saw one Cuckoo (Black-billed?) in the willows near the Mass. Central R.R. In the Pill. walk from Belmont to Mystic Pond and home via the Lexington Woods and Arlington Heights. Brown Thrashers very plenty and four Towhees, Savannah Sparrows and one Bicknell's Thrush. Also one Black-&-white Creeper, Solitary Vireo, & Golden-crowned Kinglets & Snowbirds. One Yellow-bellied Woodpecker, &c.

29. Around on the back side of Prospect Hill, Waltham in the A.M. Swainson's Thrushes (and Gray-cheeks among them) abundant. Three Yellow-bellied Woodpeckers, one ♂ Black-throated Blue Warbler (country voice) and one ♀.

30. To Fresh Pond in A.M. Many Snipe, a few Teal, 16 Black-throated Blue Warbler, one Water Thrush, one Swainson's Thrush, one Gray-cheeked Thrush. To Nahant in P.M. Two Red-breasted Snipe ?, one Ring-neck, Sanderling (few), a few Herring Gulls. Have seen more Gray Squirrels this autumn than ever before in the Belmont and Arlington region, where they are not usually common.

1. To Arlington Heights in P.M. Enormous flock of crows going to roost near Beaver Brook at 5.45 o'clock. Thro' the afternoon they seemed to be collecting nearer from fires on the E. side of Winter St.
2. To Fresh Pond marshes in the A.M. One Bittern, Coot, Carolina Rail singing, &c.
3. Last night clear and cool. Large flight of White-throated Sparrows, Yellow-rumped Warblers, &c. One Indigo-bird.
4. Very Spring-like quality in the air this morning. Meadow larks singing freely in the fields near the Chestnut Grove. Also a Bluebird singing with all the vernal fervor, with tremulous wings. The Gray-cheeked Thrushes can be told, even if not seen, by their their Veery-like note – quite different from the whistle of the Olive-back. They are here flocking thro' together. Robins abundant and generally distributed to-day. I fancy they are now migrating, but I see no evidence of diurnal migration. A good many still went over last night on their way to the roost which is not yet entirely broken up.
5. Around Prospect Hill, Waltham, in the A.M. One Hermit Thrush (the first I have seen here this autumn) and a Wilson's Thrush, the latter in company with a Gray-cheek.
6. To Arlington in the A.M. One Scarlet Tanager. In the afternoon some fine flocks on the wing in leisurely, light manner (Wood Ducks?). One of the boys killed a woodchuck this afternoon. Where do the woodchucks "hole in"?
8. In the morning went to Franklin Park Station on the Dorchester Branch of the Boston R.R. Followed the creek along thro' the marsh to, on the Revere side, to the Saltonstall mansion; then by horse-car

8. The Red-throated Diver was in full plumage. Brewster tells me that he has never known but one specimen having been taken here in this plumage.

to Lynn and (in the afternoon) the length of Lynn Beach and around Little Nahant. Found the Sharp-tailed Sparrows in the fringe of rank grass skirting the creek (in the morning). They are very shy, with the habits of the Passerculi intensified. Saw two. One is distinctly smaller and brighter-colored than the other. Is it possibly Nelson's Sparrow? Swarms of Titlarks in the marsh – also Savannah Sparrows and Meadow larks (the latter singing). Vast flock of Crows. Saw no shore-birds at Nahant. Two White-winged Scoters (?) and a wounded adult Red-throated Diver (with the red throat) left by the tide upon the beach. I killed him out of mercy.

9. Went to the Robin roost towards night. Very few birds coming in. A Partridge drumming three times. Saw a small flock of Cedar-birds. Have not been moving this morning.

10. Standing in the open on the hill above the Waverley Hospital this morning I observed great numbers of Robins apparently working along in a southerly course, feeding as they went, without taking any long, high flights. Later, as I was proceeding on towards Wellington Hill, I saw a flock of 8 or 12 coming from the N E to join the others. Now do not these birds do their heavy flight by night and continue their southward course in a desultory fashion thro' the day, feeding as they go, in the manner of Warblers & other nocturnal migrants? Heard a flock of Red Crossbills overhead – so high up that were quite invisible. I can now readily believe that the lisplings of Warblers heard at night may come from a much greater height than would at first seem probable.

11. On comparing the two Sharp-tailed Sparrows secured on the 8th with specimens in the Cambridge Museum and in Mr. Batchelder's col-

for Oct. 11.

List of birds seen, Oct. 12-14, 1889, in vic. of Seytock Mt.

1. Buteo borealis. 12. 14.
2. Bonasa umbellus. 12 (drums). 14.
3. Dryobates pubescens. 13.
4. Colaptes auricularius. 12. 13. 14.
5. Cyanocitta cristata. 12. 13. 14.
6. Corvus corax principalis. 13.
7. Sturnus vulgaris. 13. 14.
8. " sinuus. 13.
9. Passer domesticus. (Nr. Hiawassee village.)
10. Poecetes gramineus. 13.
11. Melospiza fasciata. 12. 13. 14.
12. Junco hiemalis. 13. 14.
13. Spizella pusilla. 14.
14. Zonotrichia albicollis. 12. 13. 14.
15. Parus atricapillus. 12. 13. 14 (singing).
16. Certhia f. americana. 12. 13. 14.
17. Sitta canadensis. 13. 14.
18. " carolinensis. 14 (two).
19. Regulus satrapa. 13. 14.
20. " calendula. 13.
21. Troglodytes hiemalis? 13 (heard).
22. Turdus a. fuscescens. 13. 14.
23. " u. swainsonii (or T. aliciae?). 13 (one).
24. Merula migratoria. 13.
25. Sialia sialis. 14.
26. Ceryle alcyon. 12 (one).
27. Selaphorus sasinus? 12. 13.

lecdin, it appears that the larger one is Ammodramus caudacutus subvirgatus, the smaller one A. c. nelsoni.

12. Went to North Adams (Mr. Wilbur's). In the neighborhood of Ayer Junction (?) I saw from the car-window a very large flock of Crows flying, at a great height, in a south-westerly direction, 9.30 P.M. evidently migrating. In the afternoon walked up to the Bellows-Pipe and got caught in the rain.

(See Oct. 13 + 31 (p. 102).)

13. Cold this morning, with light snow on the mountains. Walked thro' the Bellows-Pipe and down the north side in the morning. Blue Jays, Crows, Snowbirds, and White-throated Sparrows abundant. Also a large flock of Pine Finches. Very few Robins, no warblers, good number Golden-crowned Kinglets, a few Ruby-crowns, Brown Creepers, Hermit Thrushes, one Swainson's (or Gray-cheek).

14. Cool, cloudy. Went to Bonylock in the morning. Up by the turnpike, down by the Bellows-Pipe. Very few birds on the upper part of the mountain, Juncos and Field Sparrows in the pastures. Bitterly cold on the summit, with light snow on the ground. Red-bellied Nuthatches abundant in the spruces.

Saw another flock of crows (10.30 A.M.) flying SE over the Notch.

15. First Tree Sparrows today. Also found a dead Pine Finch.

16. The characteristic tail-action of the Hermit Thrush consists in first its elevation, then its depression.

17. To Lynn by the 7.10 A.M. train. Over Lynn Beach and around Little Nahant. Great numbers of Titlarks, flock of Horned Larks, several Savannah Sparrows, one Ipswich Sparrow, one Red-poll Linnet feeding on Golden-rod seeds by the path around Little Nahant, Bay-winged Bunting, Song Sparrows, Herring Gulls, one Black Scoter, Red-breasted Merganser (shot by a gunner), two or three Snowbirds, and one Semipalmated Plover.

Parus hudsonicus in southern New England.

Peabody.	Rep. Orn. Mass., p. 102, 1839.	"Has been found by S. Eliot Greene, Esq. near his home in Brookline."
Brewster.	Amer. Nat., VI., 1872, 306.	Concord, Mass., Oct. 30, 1870. (Littoralis) ♀
"	Bull. N. O. C., VI., 1881, 54.	Concord, Mass., Oct. 7, 1880. Not killed.
Spelman.	Bull. N. O. C. VI., 1881, 114.	Cambridge, Mass., Dec. 31, 1880. (Littoralis ♀)
	Orn. & Oöl., X., 1885, 64.	Quincy, Mass., Mar. 14, 1885. R. R. Quincy.
Faxon.	S. F. Denton, Wellesley, Mass., Oct. 30, 1880. 13. Skin examined by N. Brewster. Auk, VII., 1890, 408.	
"	N. Brewster, Prospect St., Belmont, Mass., (nigricans) dec. 31, 1884. Auk, VII., 1890, 408.	
Jeseks.	Bull. N. O. C., VI., 1881, 54.	Thomas Adcock, Smithfield, R. I., about Nov. 1, 1880.
Merriam.	Bull. N. O. C., I., 1876, 52.	Rev. Birds Conn., p. 15, 1877. Robert Morris, Nov. 13, 1875. 13. A few miles from New Haven, Conn.
Faxon.	Auk, VII. 1890, 407.	Arlington, Mass., Oct. 18-22, 1889. Five (littoralis) ♂ (one [illegible], 1900).
"	" " " 408.	Waverley, Mass., Nov. 17, 1889 – Apr. 5, 1890. Not killed.
"	" " " "	Mt. Jefferson, Mass., Dec. 15-19, 1889. Fourteen (littoralis & nigricans) (five shot by N. F.; 16th, one by N. F. (nigricans 14th).
Kimball.	Auk, VII., 1890, 291.	Ho. Ashkinuhsun, Mass., Mar. 17, 1890. 15, 19.

After dinner walked from Lagrange to Saugus and across from Pleasant Hills station to Melrose.

18. Walked over to the Linnaea Woods in Arlington viâ Arlington Heights with E.F. and G.E.F. Flock of Titlarks in a ploughed field on Arlington Heights. Just as we were entering the Linnaea white-pine grove we heard the characteristic sic-a-dee, dee of the Hudsonian Chickadee. Before long we saw two of the birds. They were in company with a few common Chickadees. I believe the Hudsonian Chickadee has been recorded but four times from this State.

Yesterday and to-day have been perfect October days, warm and pleasant. The autumnal foliage is at its best.

Heard Pine Finches in Waverley yesterday and to-day.

G.E.F. tells me that he has seen White-bellied Swallows in Jamaica Plain this month as late as the 15th, on which day he saw 6 +. I have seen none since Sept. 21.

19. Went to the Linnaea Woods, Arlington, in the morning, arriving there at 9 o'clock. Found the Chickadees, including the two Hudsonians, congregated together, scolding at a small Hawk. Shot one of the Hudsonians, and took it to Mr. Brewster's. Besides the four definite Massachusetts records for this bird given in the last edition of Allen's Catalogue, Mr. Brewster has a MS note of a ♂ killed by S.F. Denton in Wellesley, Oct. 30, 1880 (Mr. B. examined this bird), and there is a specimen in Brewster's collection, collected by himself in Belmont (Prospect St.), Dec. 31, 1884. The notes of the Hudsonian Chickadee may be represented by sic-a-dee', dee'. Its voice is thinner and weaker than that of P. atricapillus, the notes are delivered more slowly, with more stress on the dee, dee, and not so much stress on the sic or chick. It also has a simple whistle, and a queer little combination of notes corresponding to the chick-a-dee of the common

Pentheles hudsonicus (Allen) M.B.O. Coll. No. 25621

species. I heard no notes corresponding to the phœbe song of the common species, but Mr. Montague Chamberlaine told me once that it has a similar song.

There were many birds in the grove this morning besides the Chickadees: Yellow-rumps (singing as in spring-time), Snowbirds (warbling), both Kinglets, Brown Creepers, Red-bellied Nuthatches, a good many Pine Finches, Red Crossbills, etc. In the afternoon I saw a flock of Titlarks in Belmont, near the Fresh Pond marshes.

20. Heard the ♂ ♀ (er-ee) of the Bowlin-Kail in the Blemotis Brook-marsh this morning. Many Pine Finches and Red Crossbills. The Bluebirds are now attracted by the berries of the Virginia Creeper on the fence. There were four or five there this afternoon. To-day has been warm and pleasant with S.W. wind — no frost last night. Robins sing. Chipmunks still above ground. Towards sunset went to the Robin roost and found it practically deserted. Saw three flocks of Ducks (8+7+3) pass over; could hear the quacks of the second flock — sounded like Wood Ducks, but the last three (flying very low) looked too light on the belly for that species. The "Autumnal Warbler" appears to be about gone.

Mr. Torrey writes me that on the afternoon of the 16th he found the Ipswich Sparrows quite numerous at Nahant; on the morning of the 17th a careful search revealed only one bird to me at the same place, and the 18th T. had the same experience (only one bird). It would seem that the bulk of the flock moved on during the night of the 16th–17th. T. saw the same Red-poll Linnet on the 16th that I saw on the 17th — in the same place!

21. Rainy, wind N.E. Went to the Fresh Pond marshes in the morning with the two dogs. Put up two snipe, the second one flown

times. Each time the bird rose against the wind, first on a straight course, but tacking after getting well under way, then steady again. In the afternoon saw a flock of Tillicums flying over Rock Meadow. Meadow larks singing. Flock of Red Crossbills in the Norway Spruces in the pond morning and afternoon.

22. Pleasant. Found the surviving Hudsonian Titmouse again in the same place as before. Red Crossbills and Tittarks seem to be generally dispersed about here now. A few Black-poll Warblers still linger, Yellow-rumps plenty. Only a few Fox Sparrows as yet, and no Tree Sparrows.

23. Cold, November's day. To Purgatory Swamp, Dedham, with E. F. and C. E. F. Very few birds seen. Saw a Bee-tree (Hemlock) in which had been lately opened and robbed, in the swamp.

24. Cold, N N E wind. To Nahant in the afternoon. Three Snow Buntings at Little Nahant and one Lapland Long-spur. The latter was right in the path that runs around the peninsula of Little Nahant. Tittarks, Horse Larks, Ipswich & Savannah Sparrows, and two Sanderlings. The notes of the Tittark on the wing resemble those of the Horse Lark at times, then the spring notes of the White-bellied Swallow.

25. The kip, kip of the Red Crossbill is much like one of the sounds made by barn-yard chickens. The kip of the Downy Woodpecker is similar to that of the White-throated Sparrow and even more like the sound of a chisel in a quarry than the White-throats. Tree Sparrows to-day. No Black-poll Warblers and but few Yellow-rumps. Robins scarce, no Purple Finches. Rapidly getting down to winter conditions as far as birds are

Oct. 1889.

27. Striped Squirrels still to be seen.

31. Saw a great many Crows flying over Waverley in a southerly direction about 3.15 P.M. From the considerable height at which they were flying I took them to be migrating birds.

See Oct. 12, 13, (p. 95).

concerned.

26. To Nahant in the afternoon. Heavy surf from the NE wind that has prevailed for three or four days. Much warmer to-day. Flock of seven White-rumped Sandpipers on the Bay side of the beach. A gunner shot two (which he gave to me) and also one of two Black-bellied Plover. He called it the Golden Plover, but former cursory examination of it I think it was the Black-bellied (young plumage) on account of the white upper tail-coverts and barred black and white tail. I forgot to look for the hind toe! With the White-rumped Sandpiper there was another without the white tail-coverts and with only one ashy shading on each side of the breast. Was it the young of the Spotted Sandpiper? Also saw one Semipalmated Plover. Many Titlarks, a flock of Horned larks, a few Savannah and Ipswich Sparrows but no Snow Buntings. About 20 ducks (apparently White-winged Scoters and two or three Red-throated Divers. The notes of the Black-bellied Plover were o-o-o. Heard the squeal of a Carolina Rail in the Clematis Brook marsh this morning.

27. Went with Torrey to Arlington in the morning in the hope of showing him the Hudsonian Chickadee but failed to find it. Then on event to Nahant in P.M. Four White-rumped Sandpipers and two Red-backed Sandpipers on the Bay side of the Beach. One Oldsquaw.

29. To Rock Meadow in the afternoon. Five Wilson's Snipe and one Carolina Rail (shot by a gunner). The rail dropped, when hit, into the open, and when found was under water nearly up to the eyes – a good way to avoid giving scent to the dog. Rainy day with NE wind.

31. To Nahant in the morning. Ipswich Sparrows abundant in the beach-grass on each side of the road along Lynn Beach. They often ~~feed on~~ tenant the sea-weed at

per Dec. 1.

G. E. F. saw Bergh alcyon in Brookline as late as Nov. 1.

Cardinalis cardinalis in Mass. & New York.

Nuttall. Ilorn. Orn. N. A., p. . Botanic Garden, Cambridge, Mass., May

Peabody. Rep. Orn. Mass., p. 329, 1839. "It is seen, but only at irregular intervals, in the villages on the Connecticut River".

J. M. Jones. For. & Str., X., 15, 275; XII., 11, 205; Amer. Nat. V., 1871, 176. One shot near Halifax, N. S. (a fair specy), Jan. 31, 1871.

Allen. Amer. Nat., III., 1870, 635. Four taken near Springfield, Mass. Oct. 1866. W. H. Niles observed it at Belchertown, Mass. the last week in Oct. 1868, and at Southampton, Mass., May 5, 1869.

Richards. Bull. N. O. C., VIII., 1883, 59. Woburn, Mass., Nov. 14, 1882.

Torrey. Birds in the Bush, p. 27, 1885. Public Garden, Boston, Mass. Thought to be a cage-bird. "Oct. 21, 1881, 7 or 8 juv." R. T. in litt.

Bicknell (For. & Str., XII. 7, 126) makes mention of their coming south in the autumn.

One shot in Wellesley, Mass., Dec. by S. F. Denton. (Fide W. Brewster.) Unnoticed. Did not appear to be a cage-bird.

W. B.

the high water mark on the beach. With them were a few Savannah Sparrows. One Holbœll's(?) Grebe off Little Nahant.

Nov.

1. Damp, moderately warm and rather spring-like day. To Linnæan Woods, Arlington in the morning. Near Spy Pond, in Arlington near the Belmont line saw a female Cardinal Grosbeak. When first observed it was in some bushes but on my "screeping" she flew into a tree where I had an excellent opportunity to observe her at short range. Still not a spring-like song-bird. Did not see or hear the Hermit Thrush in the Linnæan Woods. Saw 24 kinds of birds, the following in song: Robin, Chickadee, Goldfinch, Tree Sparrow, and Fox Sparrow. But one species of Warbler, viz. the Yellow-rump. In the afternoon went into the Fresh Pond swamps. One Wilson's Snipe and two Long-billed Marsh Wrens, the latter singing. No Swamp Sparrows, their place being taken by the Tree Sparrows. Many Song Sparrows and Rusty Blackbirds. Fox Sparrows singing in, as in the spring-time. The Fox Sparrow has a loud chuck very like that of the Brown Thrasher. No Snows.

2. To Nahant in A.M. Warm, pleasant. One Long-tailed Duck within stone's throw, three Ruddy Ducks, White-winged Scoters, Shore Larks, Snow Buntings, Ipswich Sparrows, etc. No Savannahs.

4. First Butterbird to-day. B.T. saw it as early as Oct. 20.

5. To Linnæan Woods in the morning. Flocks of Red-poll Linnets swing over the country. Last winter we had none of these birds, but the preceding year there were a good many. Yet they did not then appear until Jan. 29. So Oct. 17.

7. Walked over to Arlington Heights station in the morning, thence by rail to Bedford and walk to South Billerica and back to B. The Bedford region appears to be very poor in birds.

8. In the Fresh Pond marshes this afternoon I found a few Rusty Black-

Nov. 1899.

birds, a good many Song and Tree Sparrows, one Swamp Sparrow, and the Long-billed Marsh Wren in the same place where I saw two on the 1st. Also one Winter Wren

Nov. 11. Chipmunk this morning sitting at the mouth of his hole. Isn't this about as late as they are ever seen?

15. Walked to Arlington Heights station, thence by rail (with E. F. & H. E. F.) to Bedford & on foot to Carlisle and by the old road to Concord. Saw a bluebird – two years ago I saw them as late as Nov. 20.

16. Cold. Ice formed last night on shallow waters that lasted through the day. In the Fresh Pond meadows this afternoon I found a good many Song Sparrows.

17. Thermometer 21° at 7.30 A.M. At noon the Waverley mill-ponds were all frozen over, so as to bear one near the edge. Found a Hudsonian Titmouse in the Pine Grove (close to the spring) near the Waverley Hospital. He was in company of Black-capped Chickadees. The bulk of the army of Snowbirds has already gone south –

21. To Nahant in the morning. Few Shore Larks, Old Squaws, Red-throated Divers, Holboell's (?) Grebes, &c. Saw no Ipswich Sparrows. It being high tide the Gulls were collected in large numbers on the salt marshes of Saugus. In the afternoon met a boy on Arlington Heights whose dog had killed a rabbit that was black except the end of the nose and whiskers which were white and the belly of a plumbeous cast, apparently from the tips of the darker part of the fur. For a few days past the Tree Sparrows have become comparatively scarce.

23. Walked from Winchester to Waverley with E. F. via Arlington.

27. Flight Crow this morning, barely whitening the ground, the first of the season.

Dec. 1. C. E. F. saw a Kingfisher in Brookline.
Job (Bull. N.O.C. VIII. 180) notes Kingfisher in Brookline in Feb. 1882.

28. Thanksgiving day. Heavy S E rain through the morning, clearing toward noon. Walking out from Cambridge in the afternoon, saw about ninety Gulls flying over S E against the wind, when Hills Corning. Perhaps they had been blown inland by the storm.

30. Pleasant, not cold. Monadnock and the Fitzwilliam hills show some snow now, but none is to be seen on Wachusett.

Dec.

4. 10° above zero this morning, coldest yet. Spitting snow yesterday and to-day.

5. 20° this morning. Went to Marblehead and walked back as far as Lynn. A few Yellow-rumped Warblers and a Great Horned Owl in the low ground this side of the hotel at Marblehead Neck. I observed the Yellow-rumps in this place in the latter part of last month.

6. Noticed a crow pursuing another and chasing while on the wing. Appeared like courtship. Saw an enormous flock of Redpolls on Arlington Heights. There is a big lot of northern birds with us now. I have seen White-winged Crossbills (in Nov.), Pine Grosbeaks on Arlington Heights (also during last month), and there was a Cannon Jay killed there two this autumn.

8. Found a Long-billed Marsh Wren in the Fresh Pond Marshes, Cambridge, this morning. The dried and matted cat-tails make a very good winter house. Saw as many as twenty Song Sparrows in the ocean marshes. Mild day, thermometer 45°. The wren sang in a feeble way when I scared him. The marshes are frozen and even Spy Pond is coated with a thin sheet of ice.

Birds observed in Ashby, Mass., and vicinity, Dec. 11-14, 1889.

1. Bonasa umbellus. 12. 13.
2. Cyanocitta cristata. 11 (Fitchburg).
3. Corvus americanus. 11 (Fitchburg). 13.
4. Acanthis linaria. 12. 13. 14.
5. Passer domesticus. 12 (Ashby village).
6. Lanius borealis. 12.
7. Certhia f. americana. 13.
8. Sitta canadensis. 13.
9. Parus atricapillus. 13.
10. Regulus satrapa. 13.
11. Pinicola enucleator. 12 (Brewster).

Birds observed in the neighborhood of Graylock Mt., Dec. 14-20, 1889.

1. Bonasa umbellus. 15. 16. 17. 18. 19.
2. Dendragapus villosus. 16.
3. Cyanocitta cristata. 15. 16. 17. 18. 19.
4. Corvus americanus. 16. 18. 20.
5. Loxia leucoptera. 16. 17.
6. " c. minor. 16. 17. 18.
7. Pinicola enucleator. 15. 16. 17.
8. Passer domesticus. No. Adams village.
9. Lanius borealis. 18.
10. Certhia f. americana. 16 (Brewster).
11. Sitta carolinensis. 16.
12. " canadensis. 15. 16. 17. 18. 19.
13. Parus atricapillus. 15.x 16.x 17.x 18.x 19.x
14. " hudsonicus. 15. 16 (H.B.). 17. 18. 19. 6 or so
15. Regulus satrapa. 17. 18. 19.

x Singing.

9. Very warm day with southerly wind. Rainy in the morning but clearing before noon. Walking out to Waverley in the afternoon, from Cambridge, I found the Long-billed Marsh Wren in the same place as yesterday, also a flock of seven Meadow larks near the fence on the northern edge of the marshes. Saw a few dandelions in flower as well as chickweed and shepherd's purse.

10. Cooler, but still mild. 32° at sunrise. Saw the Marsh Wren again in the same spot — he sang repeatedly. One of the Meadow larks again.

11. Warm rain in the morning, clearing off cool with NW wind in the afternoon. To Ashby (N. Brooks's) via Fitchburg with Wm. Brewster. Saw a few Crows and two Blue Jays in Fitchburg while riding over to Ashby.

12. Pleasant, cool & W wind. Drove to Mt. Watatic. Ascended the steep, spruce-covered Ashburnham side. Saw deer & a Hedgehog (probably) as indicated by the experiment at mouth of den. Birds very scarce. Two flocks of Redpoll Linnets, three Partridges, one Shrike with a mouse (?) in his bill, and Forbush saw about three Tree Sparrows, two which (in red plumage) he shot. Not one Chickadee nor a Tree Sparrow. The Crows are said to pretty much all leave this region in the winter. Very clear atmosphere — saw the horses on Ridge from sleigh-bells with the opera-glasses.

13. Rather mild to-day. Spent the time in the neighborhood of Ashby village. In the pine woods we found a few Chickadees, about three Red-bellied Nuthatches,

some five Golden-crowned Kinglets, two Brown Creepers, and some Redpolls. In an old field started a bird that we could not identify surely - probably a Tree Sparrow. Watched a Red-bellied Nuthatch storing Pitch Pine seeds. He repeatedly took the seeds from the same cone, inserting them into the crevices of the bark and in the lichens growing there on. They were deposited over a considerable area of the tree (perhaps a square yard or so) - after placing the seed he would ram it in with taps of his beak. Saw only three House Sparrows in the village.

14. Cold, cloudy morning. Drove to Fitchburg, and there took the train to North Adams. Snowing before we reached the Hoosac Tunnel. From North Adams we went in the F.H.R. to Lorenzo Wilbur's, in the Notch. Mr. Wilbur says the Crows take off chickens from his barnyard. Mr. Brooks at Hoxley confirmed this statement. A Black Bear weighing 300 pounds was killed on Hoosac Mountain in Monroe, Mass. last Saturday. "It was one of the largest seen in this section in years, and was probably between fifteen and twenty years old." - Hoosac Valley News, Dec. 14, 1889. I was told a year ago last autumn that bears were still not uncommon in Southern Vermont (Stamford, etc.)

15. The snow lies 5 or more inches deep in the Notch. Went among the second growth spruces above Wilbur's. Heard one Blue Jay, one Hudsonian Titmouse, and saw several Chickadees, two Red-bellied Nuthatches, two Purple Finches, and one Pine Grosbeak.

16. Pleasant, moderate temperature, and still. Up to the Bellows Pipe and down on the south side to beyond the shanties and

then up the side of Dogtock a piece, into the primitive spruce. Beyond reaching the Bellowspipe saw a flock of six Blue Jays, at the Bellowspipe two White-bellied Nuthatches (in deciduous trees), a flock of Crossbills on the wing (both kinds), and heard Pine Grosbeaks. In the old Spruces the Red-bellied Nuthatches were abundant, and quite a number of the White-bellied Nuthatch also. On my return saw a Downy Woodpecker in the birch in the Bellowspipe. He twice lit crosswise on small branches — very awkwardly, trying to balance himself with his tail. Once he clung back down, to a spray, in the manner of a Chickadee. [I have since noticed the Downy Woodpecker alight crosswise on a branch with more grace.] Of two Partridges that I flushed together in the pasture spruces, one sprang immediately, while the other (under cover of a thick spruce) clucked for a few seconds before taking to wing. B. spent the day in the woods above the house. He found at least three Hudsonian Titmice (Killed two), also one Brown Creeper, three White-bellied Nuthatches, seventeen Red-bellied Nuthatches, White-winged Crossbills, Pine Grosbeaks, Chickadees.

B. returned home in the evening on account of sickness in his family.

17. Cloudy. Up Dogtock by the turnpike, and back the same way. Very hard walking on account of the snow and still more on account of the smooth ice on the road under the snow. Red-bellied Nuthatches, a few Blue Jays, Chickadees; one Hudsonian Titmouse, two Golden-crowned Kinglets, three Partridges, in spruce above Eddy's. Red-bellied Nuthatches, and roving flocks of both kinds of Crossbills and Pine Grosbeaks on the mountain. Few birds above the one-mile board. More Red-bellied Nuthatches than I have ever seen elsewhere.

W.B. Crotch, No. 30309 Pentheselia hudsonica, Ellsworth
" " " 30310 " " nigricans
" " " 30311 " " " Jacob Townsend Acton, Mass. 1917

Not one of the chickadees in Mountain Pacific. It has been identified by Townsend as P. h. nigricans (U.S.N.M. coll. no. 26270)

18. Cloudy, south wind. Down to North Adams by the winter road and up to the Park. Two or more Golden-crowned Kinglets, a few Blue Jays, Red Crossbills, two Hudsonian Titmice, Chickadees, Red-bellied Nuthatches, and Partridges in the Spruces above Walden's. A few Crows in the Notch, below Walden's. Chickadees and Blue Jays near the hemlocks on the winter road. One Shrike just below the reservoirs. No birds in the low country except a few Crows.

19. Rain last night, clearing off almost all the snow. Clearing and the day. Wind N.W. Up the Greylock turnpike to Money Brook. Blue Jays, Red Nuthatches, Golden-crowned Kinglets (one or more, in same place as before), six Partridges, Chickadees. Also Hudsonian Titmice (perhaps 6 or 10) in the Mountain Pasture among the second-growth spruces. This bird is more silent than the common Chickadee. Heard it utter a kinglet-like note and also the sie-a-dee', dee'.

20. Returned home. While riding down to N. Adams I saw one Crow on a tree above Walden's house. From this trip it appears that birds are much less abundant in the interior of the State in winter than they are on the sea-board. They are more abundant on the Saddleback Mts. than around Wahatic — but we saw no Redpolls at Greylock. The Hudsonian Titmouse seems to winter in some numbers on Greylock and (this winter at least) in good numbers on Grosbeaks. But few of the latter have been seen this winter about Boston.

21. A White-throated Sparrow singing in an imperfect way in Brookline St., Cambridge, this morning. Passing thro' the Fresh Pond Marshes in the afternoon I saw only one Song Sparrow. If both or if there had been a movement away from here since the 10th. Boston Jan. 2, 1890.

25. Very warm, spring-like day — even warmer than last Christmas. Went to Jamaica Plain and walked in A.M. from West Roxbury to Stony Brook thro' the Muddy Pond woods. Muddy Pond is entirely open.

27. To Nahant in A.M. Shot three Redpolls from a flock. Two of them proved to be *rostrata*, one *linaria*.

30. To Marblehead in the morning. Could not find the Yellow-throats.

31. Upwards of seventy Golden-eye Ducks in Charles River near the West Boston Bridge. Brewster tells me they have been there some time. Also large number of Herring Gulls.

On the 29th Mr. Spelman saw a Swamp Sparrow in Pond Pond swamp and heard Blackbird (~~[illegible]~~ Red-wing). See Jan. 13, '90. This bird recorded in Auk, VII. 288.

1. Cloudy. Through Rock Meadow to Mead's Pond and around to Waltham. Mead's Pond is not frozen enough to skate. Found a Hudsonian Titmouse in the pine grove near the Waverley Hospital — the same place where I found one Nov. 17, 1889. He was in the company of one Golden-crowned Kinglet, feeding among the pines and red cedars.

2. Very warm, pleasant day, about 64°. Wind S SW, rather strong in the afternoon. On the way to Cambridge this morning I got off the train at Hill's Crossing and walked around Port Pond, etc. Saw about eight Song Sparrows, and found the Long-billed Marsh Wren again in the same place as before. He was very reticent to-day. Flock of Herring Gulls over Fresh Pond. Found the White-throated Sparrow again on Buckingham St. He sang once or twice in an imperfect fashion. There seem to be no Robins here now. The cedar-berries are excessively scarce, — more so than last winter.

3. Rather cooler, pleasant. Went through the Fresh Pond swamps in the morning with W. B. Crows, Chickadees, Redpolls, a few Pine Finches and Goldfinches, Tree Sparrows, and one Long-billed Marsh Wren in the dead cat-tail flags near Port Pond. Did not find one in the former place. Is it a second bird? Flushed one Sparrow that appeared to be a Swamp Sparrow, but we did not get quite near enough to be absolutely sure of it. Saw eight or ten Song Sparrows.

4. Therm. 20° at sunrise. To Nahant and back on foot to Revere via Revere Beach and Oak Island. Saw very few birds. A good many Plectrophenax nivalis on Revere Beach.

5. Rainy. Saw the Hudsonian Titmouse again near the hospital.

6. Warm, cloudy. Walking out from Cambridge this P.M. I stopped at Port Pond where I heard many Song Sparrows, two or three Swamp Sparrows, and saw a Blackbird (~~Rusty?~~ Red-wing) in the cat-tails. It was too

7. Enormous number of Herring Gulls flying over Olympia Jetty. A mile away they looked like snow-flakes of a thick storm!

Calothorax pulcherrimus pulcherrimus is said to winter along the Pacific coast as far N. as the Columbia, in meadows overgrown with Scirpus pulcherrimus (Vahl). J. G. Cooper, Nat. Hist. Sur., Ornithology. Some are said to winter near Fort Stevens, Or. Dr. Merrill, Auk, V. I believe that it has not been hitherto known to winter on the S.E. Coast, except at N. of South Carolina.

Jan. 13

dark (4.30-4.45 o'clock) to make out with certainty what species it was. It was evidently settled there for the night.

7. Cloudy, pretty warm. In the cat-tail swamp along Mill Brook near where it empties into Mystic Pond, Arlington, I found a good many Song Sparrows, at least one Swamp Sparrow, and a Long-billed Marsh Wren! Saw two Red-bellied Nuthatches, in two places. There are not many of these about here this winter.

8. Cooler, 23° at sunrise. Saw the Hudson's Bay Chickadee again this morning in Waverley (Mill St.). Saw Meadow Larks in Park Shrubbery.

9. Cold, very windy, 13° at sunrise. Saw the "whistlers" as I passed over the West Boston Bridge this afternoon.

10. Coldest day of the winter thus far, with a light snow, the second of the season. 11° at sunrise, 12.5 at 1.30 P.M., 8° at 10 P.M.

11. 9° at 7 A.M. Snow during the day, growing warmer toward night, 23° at 8 P.M. In the afternoon went into the Fresh Pond marshes with Mr. Spelman. Saw about eight Swamp Sparrows (two were seen leaving thrush, six near Point Pond), two Song Sparrows, and a flock of Tree Sparrows. The marshes are frozen now to be on one's weight. Saw nothing of the Marsh Wren on the Blackbirds. It was snowing while we were in the marshes.

12. Warmer again, taking off most of the snow. About two inches of snow fell on the 10th and 11th.

13. Warm. Went to Arlington in the morning and shot the Circothorus palustris, a male, and fat according to Mr. Denton, who skinned the bird for Mr. Brewster. Mr. Spelman identified the Blackbird at Point Pond yesterday. It proved to be a Redwing. I also saw two White-throated Sparrows and four Swamp Sparrows. I saw 8 or 10 Song Sparrows in the Arlington marsh this morning. The Marsh Wren has a very

The stomach of the Marsh Wren was well filled with the remains of Coleoptrous larvæ (?), some unidentifiable transparent larvæ (?) and a few shreds of vegetable fibre.

Acc. to W. B., Mr. Vickary reports that Cedar-birds appeared in Lynn about the same time that we saw them near the "Punch-bowl."

of bobbing, like the Winter Wren.

14. Pleasant, moderate temperature. Went to the cat-tail marsh near the "Punch-bowl", Brookline, with W.B. A good many Song Sparrows in the cat-tails, together with a few Tree Sparrows and one sparrow which, both from its note and appearance, both of us decided was a Chipper. It was put up by a yellow cat and lit on a cat-tail some distance from us - then it flew off to the further side of the marsh and we saw no more of it. The sparrows (including many House Sparrows) seem to feed on the seeds of the cat-tails. We saw no Swamp Sparrows. Flock of 27 Crow-birds on a tree close to a house on the Heath St. side of the marsh, also five Red Crossbills (one in red plumage) near the same place. Saw or heard nothing of Marsh Wrens, but the ice was not stiff enough to allow a thorough exploration of the marsh.
On the way home I stopped at the Fresh Pond marshes, saw a flock of from 10 Song Sparrows feeding on the ground on the edge of the cat-tails, to which they would fly when alarmed.

18. Went to the Punch-bowl marsh again this morning. Found it covered with boys skating on the thin ice, so that I had little opportunity to observe the birds. The flock of Crow-birds were on the ocean Tree - a red cedar - the only one that I have seen frequent this winter. Also saw another flock of 20± feeding on privet berries near Francis St. Two Flickers.

19. Up Arlington Heights in A.M. & down Spring Place to the Fresh Pond marshes. Saw at least twenty Song Sparrows in the cat-tails in the marshes, but no Swamp Sparrows or Marsh Wren. A flock of Red Crossbills daily comes to the Norway Spruces in the yard. Among these are two or three that show a conspicuous wing-bar, formed by the tips of the greater coverts, of a light yellowish-white color. The middle and lesser coverts are also edged with light color. The color is not so pure white as in Loxia leucoptera.

23. NW blizzard yesterday. Therm. 9° at sunrise rising to 21° in P.M., wind veering to SW with snow. In the morning walked over Arlington Heights to Linnæa Woods and so to Mystic Pond and home via Arlington and Belmont. Saw two Yellow-rumped Warblers on the further edge of the Linnæa Woods. Great numbers of Redpolls all along the route. Shot one of the Longbills noticed on the 19th. It is in the variegated (breeding?) plumage, & the wing-bar is not noticed in any of the books. Forwater has a few skins in his collection that show indications of it, but hardly as pronounced as in my bird.

24. About two inches of light snow lie on the ground this morning.

25. 5° at sunrise, the coldest this winter. Four White-winged Crossbills (in brown plumage) among the flock of carduelis on the Norway Spruces in the yard this morning. Also saw two (one in red plumage) in Norway Spruces near Waltham village towards noon. The Loxia has a note much like the ordinary note of the redpoll linnet — ch-ch-ch-ch, as well as a more musical canary-like note. I have seen both species eating seeds. In the afternoon went to the Fresh Pond marshes with Mr. Coleman. Saw nothing but Song Sparrows and a flock of Redpolls (?). Strong SW wind blowing. Saw a bird-track among the cat tails in the snow — the tracks plain looking on the surface, the opp. fringe, which gives the southern edge. Is it a quail?

per Jan. 31

26. Very warm pleasant day. Found the Hudsonian Bay Chickadee again in the grove by the Hospital. Brewster came out and spent the day in hopes of seeing the Crossbills — but the Crossbills did not come, owing very likely to the warm weather.

per Feb. 3

27. Slight fall of snow. Walking out from Cambridge in the P.M. I heard the Pied-billed Grebe chuckling in the edge of Fresh Pond. Did not see him.

Jan.

The Great Blue Heron was a young bird. Job (Bull. N.O.C. VIII. 119) records one seen by him on an island in Boston Harbor late in Dec. 1881 (?) and again about the 1st of Jan., 1882 (?).

C. E. F. writes that he has seen a Common Crossbill (in sober dress showing a distinct, narrow, dull whitish wing-bar (in Brookline). Also that on the 1st of Jan. or 31st of Dec. one of the men at the Arboretum found a Great Blue Heron near the nursery, sick apparently. He was brought into the greenhouse and lived there five or six days, grew better, and ate minnows freely from a tub of water. He died suddenly. C. E. F. has seen one White-throated Sparrow this month. At the last meeting of the Nuttall Ornithological Club one of the members reported seeing a dozen of these birds in the Boston Back Bay Park one day this month.

28. 11° at sunrise; cold, windy day. The Common Crossbills were feeding on the Norway Spruce cones again this afternoon. They insert the bill between the scales of the cone, and in extracting the seed apparently use the tongue which figures prominently within the bill when the bird is seen at the right angle from nearby. After getting the seed free from the cone, it is worked for a short time between the edges of the mandibles (well up toward the base of the beak, as it appeared to me), the wing dropping off and then some bits that are probably the thin membrane that invests the seed. Of the seeds taken from the crop of the bird shot on the 23rd, some are whole, others more or less broken up. There are remnants of the membrane on some of the whole ones. Occasionally one of the birds would alight on the ground and eat snow. Finally the whole flock (only five today) flew upon the roof of the house and ate snow, then winged their way off to the NW over the Thayer place. With my glass I think I could make sure that they did not stop there for the Norway Spruce. This was between 4 and 5 P.M. Once before I have seen

them depart in the same direction in the late afternoon.
Dexter spent last Sunday morning on the Hunnewell Place in Wellesley. He saw a good many Red Crossbills, Pine Grosbeaks, Redpolls, Nuthatches, Creepers, and Kinglets, and Thrushes. He saw two Evening Grosbeaks. One of the latter was shot there later, by Hunnewell's gardener. Saw it this morning at Forrester's. It is a female. B. has just received a note from Vickary, announcing that he "got a fine male Evening Grosbeak [at Lynn] last week. There were two feeding on cedar berries."

29. Explored the Hunnewell place in Wellesley. Found only a few Crows, Chickadees, one Blue Jay, one Creeper, one Red-bellied Nuthatch, a few Golden-crowned Kinglets, and heard distantly (in the distance) Redpolls and a White-bellied Nuthatch. Also saw two Tree-sparrows. On the way home stopped at Fort Pond. Found many Song and Tree Sparrows, one White-throated Sparrow and a large hawk (the only hawk I have seen this month). Also Chickadees and a Redpoll. Mr. Brewster writes that an Evening Grosbeak was taken at Seabrook, N. H., Jan. 9, '90.

31. To Swampscott in the morning. Walked over the snow-covered hills to the edge of Salem and back to Lynn to dinner. Saw Redpolls, Chickadees, Crows, Red Crossbills (heard), and Golden-crowned Kinglets. Also a bird which appeared to be a Yellow-rumped Warbler (on edge of Swampscott and Salem, but did not get near enough to be sure of it. Found a dead Nashville Warbler with its neck tightly wedged between the crotch of the twigs of a Barberry bush in Swampscott. Its neck was broken and it was evidently placed there by a shrike. It could not have been killed over two weeks at the furthest, I should say (& in this Mr. Brewster agrees with me). On the way out to Waverley in the P. M. I stopped at the Fresh Pond Marsh. Near the place where I saw the

For Gorthbyfis trichus in E. Mass. in January, see Auk, I 389.

bird tracks on the 25th I saw them again imprinted on the mere powder of fresh snow that lay on the ice to-day. The imprints of the feet are nearly in a line and with a short interval. This gives the measurement of the toes:

that the two wns of the toes will hardly At Pout Pond the layer of snow was so slight impression of the bird hardly perceptible. The length fits the Rail to a T, and answer for anything else! saw two or three Swamp Sparrows (very shy and silent), at least three White-throated Sparrows, a large no. of Song and Tree Sparrows, and Shrike singing on the top of a tree. This seemed to excite some Chickadees greatly. Also found a male Maryland Yellowthroat near the edge of Pout Pond (a bird of the year, with imperfect mask). He was very shy, sticking close to the shrubbery and tall weeds, upon which he would run over the ice at times. Shot him. In fine plumage and good condition. Little in the way of insect food remains in the stomach. I forgot to mention that the stomach of the Nashville Warbler contained a good many small univalve shells (Pupa)!

Great Gray Owls are said to be exceptionally numerous in Maine this month. Another Evening Grosbeak has been reported as captured lately at Milford, N. H.

Feb.

1. Warm. Stopped at Pout Pond on the way to Cambridge in the morning. Saw the three White-throats again two or three Swamp Sparrows, Tree & Song Sparrows, Chickadees, Crows, two Flickers, one Downy Woodpecker, Redpolls, and the Red-winged Blackbird. One of the Song Sparrows sang from the top of a shrub.

2. To Linnæa Woods and Mystic Pond by way of Arlington Heights, and back by Pleasant St. A flock of from thirty to forty Snow Buntings on Arlington Heights. I seldom see them indeed when there is, as now, practically no snow on the ground. Flock of about a dozen White-winged Crossbills (among in full plumage) on Pleasant St., Arlington. Kinglets in goodly numbers both at Waverley and the Linnæa Woods. Not many hawks to be seen now except the flocks that winter near the Waverley Hospital.

3. When I arrive home this afternoon (4.30 o'clock) eight White-winged Crossbills are feeding on the grass under my windows. Seven were in full red and black plumage, one brown. They were as tame as domestic fowl. The "re-peat-peat" note of this bird is almost tremulous in its movement. Its other note is soft, musical and finch-like — tweet, tweet (with a rising inflection). Two of the birds stayed as late as 5.20.

4. Warm and pleasant till the latter part of the afternoon, when light rain fell. Nine White-winged Crossbills (seven in red plumage) together with a number of the commoner species were on the place nearly all day. They now feed chiefly on the Norway Spruce seed on the ground, but sometimes take to the trees, including the larches on the upper side of the street, upon which cones they feed. The Norway Spruces are the favorite resort. Cedar-birds and Robins seen by E.E.F.

5. 60° at 9 A.M., growing colder thro' the day. Walked over Arl. Hgts to Arl. & down to W. Cambridge, with A. P. B.

7. 7° at 7 A.M. rising to 24° at 2 P.M. Saw a Winter Wren in a brush heap on the Waltham side of Rock Meadow. He was perfectly silent. The Hudsonian Chickadee again in the grove near the Convalescents' Home. I have seen him in this same place at intervals thro' the winter since Nov. 17. Good evidence, this, that bird is stationary in the winter as in summer. He is commonly

In a recent number of the Cambridge Tribune J. W. Freese states that he saw "a flock of two dozen or more cedar-birds that acted as though they had come to stay" — x x x "a month or so earlier than its advertised or usual time of coming."
"In 1886, I first saw them in Cambridge, February 21; in 1888, on February 25."

Notice of seeing Grosbeaks at end of January in Bedford, Mass., in Boston Globe of Feb. 11 & fuller account in Salem Gazette of a later date in Feb.

very silent but the dogs generally stir him up to showing his voice.

8. Heavy rain. Wind S. to S.W.

9. Flock of 13 Cedarbirds feeding on privet bushes on Arlington Heights — 6 of them with wax on their wings. One Pine Finch. 4 White-winged Crossbills on Norway Spruces in Belmont (Pleasant St., near the Town Hall) — 3 in red & black dress. Dr. C— compares their tweet to the peep of Hyla pickeringii. Considerable snow showing up on Wachusett, Watatic, Monadnock, etc. There is none here. Pleasant & cool. Wind N. to N.W.

10. Light snow, just powdering the ground.

13. Beautiful, warm, spring-like day. Over Arlington Heights to Mystic Pond, etc. with C. & F. Saw the Hudsonian Boy Chickadee again near the Hospital. He sticks very closely to the pines and red cedars — while the Black-caps often take to the deciduous trees. On the Medford side of Mystic Pond saw a Bald Eagle in full plumage on the top of an oak — pursued by several Crows. We went around the pond towards him, when he took to flight, passing almost within gun-shot of us up over the upper basin. Bevy of about ten grouse on the edge of Spring Hill Woods. One Partridge put up by the dogs — whistled as he flew.

17. To Nahant in A.M. Sea very calm. Saw many Golden-eyed Ducks and Buffle-heads, two Old Squaws, a few Wintering Scoters, Herring- and Black-backed Gulls, and two Snow Buntings. On the way home stopped at Pond. Song and Tree Sparrows singing finely. This seemed the most like spring of any thing I have heard this season

Feb. 20. B. tells me that woodcock have been seen lately near the Belmont Spring.

19. Heavy thunder-storm about 10 o'clock last evening, while it snowed! Went to Nahant in P.M. Off Little Nahant saw a bird that was probably a Black Guillemot — head, neck, and belly white; bill dark; median longitudinal dark band over the head; dark spot on side of head below eye; scapulars (and back?) mottled light & dark; rest of wing dark. Also saw another larger bird (perhaps the size of Red-necked Grebe) with a bulgy neck, look of a diver, head & neck white; black (or brown) occipital patch; breast light with a darker wash; back dark; wings dark (quite feather darkest). He was an expert diver.

20. Snow last night — 5 or 6 inches, working & blizzking. Clears off cold and windy in the afternoon.

21. 4.5° at 7 P.M. 11° at sunset. 6° at 10.30 P.M. Wind NW. Clear.

22. 7° below zero at 6 A.M. 18° above zero at 1 P.M. 3° at 10 P.M. Over Arlington Heights in A.M. A flock of from 30-40 White-winged Crossbills in the yard in the afternoon, together with Redpolls, Common Crossbills, Goldfinches, Chickadees, Snowbirds, and a White-bellied Nuthatch. The cold and snow seem to bring the birds together in large numbers and to draw them near the houses. What do the Redpolls find to eat on the apple-tree twigs?

23. Beautiful day, wind SW and much warmer than yesterday. Went around Pond Pond in the morning. Saw the Red-winged Blackbird (he has the red "shoulder"), about three White-throated Sparrows, two Swamp Sparrows, and many Song Sparrows — some of the latter singing. Also many Redpolls and Goldfinches and two Yellow-winged Warblers. The number of Redpolls and Goldfinches has increased prodigiously in the last two days.

In extracts from Richard Jefferies's note-books, printed in Besant's "Eulogy", I read of the English swift (p. 177): "The first was flying low down against the wind; seemed to progress from tip to tip of wing, alternately throwing himself down, now one tip downwards, now the other, like hand-over-hand swimming."

This trill I take to be the true song of the Redpoll.
It somewhat resembles the Lesser Redpoll.

This appears to be the mode of flight of our Chimney Swift also — a fact that I have seen noted only in Miss Merriam's "Birds through Opera-Glass", (p. 16): "rowing through the air first with one wing and then the other." Is this a survival to the ancestral, reptilian gait?

26. Rain yesterday, taking off the snow. Blew away this morn, the afternoon sunny and warm. I took off about forty White-winged Crossbills on the fence to-day, feeding much on the ground. About half of them males.

C. E. F. reports Bluebirds seen this afternoon.

27. Saw three Robins this morning flying overhead, on Arlington Heights. Also a flock of at least fifteen Yellow-rumped Warblers in the same place where I saw two on Jan. 23. Saw alders in blossom.

28. Rain, E. wind, but spring-like. Flock of twelve Red-winged Blackbirds on the Cotton Farm, clucking and gurgle-ee-ing in the tops of the tall trees.

March

1. Rainy, wind shifting to N.W. Saw a chipmunk in Mount Auburn Cemetery in the afternoon. One Meadow Lark singing. Now hear from the Rhododendrons a peculiar set of notes — almost a trill. The Crow, besides its caw, cluck, and gobble, has a peculiar series of notes like rattling or gargling.

Yell.

2. Light snow last night & more of it this afternoon. Saw the Hudsonian Chickadee in the old place this A.M., also another chipmunk.

3. About a foot of snow now lies on the ground — the only heavy fall this winter.

4. 4° this morning at 7 o'clock, 3/4 hour after sunrise, growing warmer rapidly. Found the Long-billed Marsh Wren again in the cat-tails near Port Pond, the first time he has been found since

Acanthis linaria hollbœllii in N.E.

Worcester, Mass., IV. Apr. 1887, p. 163. Swampscott, Mar. 26, 1853. 28.

Jan. 3.

5. Saw the flock of Yellow-rumps again this morning in the orchard here in Arlington. The Boston Crossbills have a soft and very musical note than its characteristic pip. The softer note is uttered while the birds are feeding. The white-winged Crossbills are marvellously tame. A few flitted out from under my feet this afternoon only barely clearing about a yard away from me when they proceeded to feed in perfect unconcern.

6. Six or seven inches more of snow.

7. Solid winter day, clear and cold, with NW wind. Temp. 2° at 6 A.M., 18° at sunset, 11° at 10.30 P.M.

8. 5.5° at 6 A.M., 21° at 10.30 P.M. Looked around Pout Pond in the morning. Saw two White-throated Sparrows, but no Swamp Sparrows or Blackbird. The Song Sparrows were mostly out in the cat-tails.

9. Warmer, but still cool, wind northerly, snow melting but little. In the woods the snow lies about a foot deep. In the fir grove near the Cornelian Moore a Partridge spends the winter. In the same place I notice rabbit tracks whenever there is snow on the ground.

10. 10° at 7 A.M., warming up soon with S.W. wind. Walked up the Concord turnpike to Spring St. and around to Waltham, in the morning. Large flock of Redpolls and Goldfinches feeding on a heap of hops on the Parker place, Lexington. Shot two of the Redpolls. One is a linarian hornemanni ♀ as shown by comparison with specimens in Brewster's collection. In gray plumage.

11. Rain.

Fox Sparrow shot by A. P. C. Mar. 12.

13. I take it there has just been an arrival of Song Sparrows from the South. C. E. F. heard Fox Sparrows sing this A.M., and saw Tanager antiques on the wing, & heard Flicker shout.

16. Eighteen Cedar-birds, Cambridge, A. P. Chadbourne.

12. Very warm day, wind S.W. Saw the Bluebirds for the first time this season – about seven. They seem to have arrived in considerable numbers. Hudsonian Titmouse again seen in hospital. Snowbird singing. Two ducks flying over the Parker Farm in Lexington toward Mead's Pond. One Red-winged Blackbird in Rock Meadow. The sand has melted so as to uncover only in patches.

13. Another warm, spring-like day. 65° Rusty Grackles, Brewer's Grackles, Fox Sparrows for the first time. Red-winged Blackbirds on the Fresh Pond swamps. Fine display. 1 Duck flying over Rock Meadow. Hyla pickeringii peeping. Some ice still in the swamps and ponds.

14. Rain, removing all snow.

15. Wet snow. To Belmont in A.M. with Dr. C. Large numbers of Black-backed Gulls on the mud-flats (very low tide), far outnumbering the Herring Gulls. One flock of Mergansers and a very large flock of unidentified ducks in Lynn Bay. Also a bird flying that looked like a Jaeger (dark colored). Three Snowbirds and two Buntings on the beaches. Flock of about ten Bluebirds scudding along over the weeds on the shore of Little Nahant, evidently migrants just arrived. No Savanna Sparrows. Have seen no White-winged Crossbills since the 13th, but the common species is still here in large numbers.

16. Pleasant, wind W. to N., light snow on the ground. In the morning walked thro' the woods back of the Belmont Spring. Two flocks of Robins of about ten birds each. This is the first time I have seen them in any numbers this season. One Fox Sparrow. Met a fellow who told me he saw the Bald Eagle in East Lexington on 10th March and that it had been seen at Spy Pond. See Feb. 13. P.M. Smithsonian Chickadee again was in the Hospital. Flock

of the Dusky Ducks in Rock Meadow & Beaver Brook just above the upper mill-pond.

18. Pleasant, but cool wind. With C. E. F. to Rock Meadow, East Lexington, by cars to Arlington, and after dinner to the Drumlin Woods; some snow yet on the ground. Saw the two Dusky Ducks in Rock Meadow together with one duck of another species with a white belly. Not many birds to-day. Fog & flurries early in the morning. The Snowbirds are evidently migrating, as are the crows also (?) Vast flock of crow Blackbirds, N. Arlington.

19. Five or six inches of snow with N.E. wind.

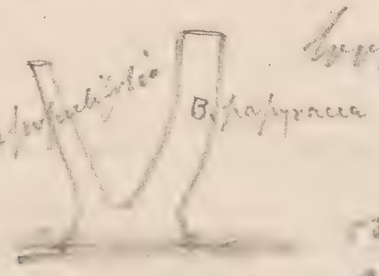
20. 14.5° at 6.30 A.M., growing warmer with S.W. wind. Up the Concord turnpike in P.M. with A.P.C. to Thos. Parker's birthplace and around to Waltham. The large flock of redpolls still at the Parker farm. Hudsonian Chickadee in the grove near the Hospital both morning and afternoon. In the afternoon he was alone, no Black-caps being in the grove, as far as we could see.

22. Rain, taking off the last of the snow.

As many as six Red Foxes (Rhoer of good size) on S.W. side of Hobart Hill, Waltham, near the State Asylum, at little Kalmia latifolia in the woods on N. side of Prospect Hill, Waltham.

23. Rain.

24. Cool, with N.W. wind. Hudsonian Titmouse again near the Hospital. One Marsh Hawk and flock of Cedar-birds (C. E. Fapp).

25. Flock of nineteen Canada Geese flying S.E. over Belmont. On the Milford side of the lower Mystic Pond noticed a Canoe Birch and a Gray Birch completely fused at the base into one, with no indication of the line of fusion; look like two sprouts from one stump. Each tree is  typical both as regards bark and leaf (some dead leaves still hanging on). The buds of papyracea are further advanced than those of prophetifolia.

29. Dr. C. started up a bird from the beach-grass that he thought to be a short-eared Owl. As it flew off over Lagoon Bay it looked to me like a gull. B. T. found an owl near the same place on the 31st.

30. White-bellied Swallows (2) and Cowbirds (6) – N. T. C.
Woodcock pings – B. T.

26. Warm in the morning, with southerly wind. Cooler in P.M. wind veering round to N.N.W. Bridge Pewee singing in his old station near the cascade on Mill St. this morning. Flock of about 70 Canada Geese. Tamias striatus and Bonasa umbellus in the wing. Large numbers of Rana palustris (?) running themselves on the edge of the water in the Fresh Pond swamps. The note heard there (probably coming from the same species) resembles the grinding of teeth.
The geese when first seen were flying in a wedge-shaped figure. Then the figure broke up and the birds reformed in two wedges. But they were soon lost to view and I could not see which followed.

27. Cool, N.W. wind. With C.E.F. to Waltham and along the lee side of Prospect Hill. Good many Bluebirds, one Sharp's Hawk (?), one large Rough-leg, and one Marsh Hawk in perfect adult sweet plumage. Rana sylvatica noisy. Striped snakes and little brown snakes. The Chrysosplenium americanum is already in flower.

28. Easterly rain-storm.

29. To Nahant in A.M. Two Ipswich Sparrows, one Titlark, Horned larks, two Buntings, many Dusky Ducks, Buffle-heads, two White-winged Scoters, two Black Scoters, etc. In the early morning saw flock of 12 Canada Geese in Waverley. Sparrow Hawk in P.M.

30. Sunday. Cool, N. to NW wind. In the morning walked over Arlington Heights to the Lonicera woods, then around the lower Mystic Pond, and home by way of Pleasant St. Hudsonian Bay Chickadee in the old place in Waverley. One Yellow-rumped Warbler near where the Veronica officinalis grows in Arlington

31. White-bellied Swallows (1 or 2) at Mustlehead – B. T.

(Mon of Turkey Hill). The N.H. mountains and Wachusett are well covered with snow.

31. Cool. To Natick in AM. Saw Spanish Sparrow. Nothing else of note. To Wayland in PM. The meadows are completely flooded. Saw a flock of Titlarks (or Shore Larks?). Heard (male) utering a note that I never heard before – a drawl or hiss – more like Blue-sided Flycatcher than Pewee. Bluebirds to-day.

April

1. Slight fall of snow last night, melting in a few hours. Cool, NW wind. Hudsonian Titmice still linger in Waverley. In the afternoon saw a flock of Shore Larks near the Pawpon Plain.

2. Pleasant, cool. In the evening heard the night-hawk notes of two woodcocks on the west side of Helmet Hill, near the Asylum.

3. Fast day. Very warm, beautiful weather. To the woodcock ground again this eve. Heard the birds again, but none sang. One flew directly over my head with a musical whistling sound, evidently produced by the wings. The bird was invisible, but from the likeness of the sound to that produced by a woodcock when flushed, I have no doubt of its identity. Three White-bellied Swallows at Fresh Pond. Flock of Cedar-birds in Waverley. Chrysemys picta, Trapta coronata. Dandelions in blossom. Temp. near 70°.

4. Warm, showers.

5. Cool, with strong NW wind. A Ruby-crowned Regulus singing this morning in the grove near the Convalescents' Home. Pauxhaw Sparrows for the last time.

6. Warm, pleasant. Bay-winged Buntings arrive in considerable numbers. Pussy willows in flower.

7. Rain. One Yellow-rumped Warbler, one Winter Wren, one Kingfisher, in Waverley. About three Swamp Sparrows (singing) in the Fresh Pond marshes.

8. Pleasant and warm. With C. E. F. around Rock Meadow to East Lexington (to dinner) and then to Linnéa Wood and around Mystic lower pond to Arlington and home thro' Pleasant St. Two Field Sparrows, one Yellow Red-poll Warbler, one Hermit Thrush (singing). A few Swamp Sparrows in Rock Meadow. Tree Sparrows almost out and quite a good many Fox Sparrows. About the height of the Lexington and-Boston. Elm-tree flowers.

9. Rain.

10. To the woodcock ground beyond Helmet Hill again this evening. Heard two performing, apparently, tho' they sounded very different. One even almost overlick in its character (probably a Snipe)

11. Thro' Waltham & Concord with A. P. C. by every of Thev' Pauper's birthplace, and back to Baker's Bridge. Eight Whistlers (6 drakes and two ducks) on Walden Pond. Once even saw the color of the eyes with opera-glass. One pair, apart from the rest of the flock, behaved curiously. The duck often laid her head and neck down flat on the water while the drake at intervals would raise up his head with a wooing as if overflowing, tho' he did not touch my water. This the female also did at least on one occasion. Both would frequently stretch out their reel legs behind their bodies, above the water. One Fresta g-album.

12. Purple Finch (one), Pine Warbler (one), Yellow-bellied Woodpecker (one), two flocks of Canada Geese, one (a flock of 35) flying thus: ↑ — To the woodcock again in eve. Heard two or three sing like the first one heard on the 10th — a crow-bird-like trill, but longer (15 seconds) and with varying pitch — followed by a series of gulps. — Sometimes the lat-

Perhaps this may be cut to note of the Sirra (?) Rail

the notes were heard alone, without the trill. Did not hear the sound like blowing into the neck of an empty bottle which I heard on the evening of the 10th. Too dark to see the birds (about 7 P.M.). Tree Frogs.

13. Pleasant, 63°. To Arlington Heights, Winter Woods and Mystic Pond in the A.M. Chippies (three). The Common Crossbills still visit the Norway Spruce in the yard almost daily, and this morning a small flock of Redpolls came. About five Redpoll Warblers on Arlington Heights, singing much like a Chipping Sparrow.

After supper went down to Mill Crossing and heard the snipe perform. Arrived about one o'clock. They stopped at 7.40.

14. Pleasant, warm, E. wind. Round the back side of Prospect Hill, Waltham in the morning. One Solitary Vireo singing persistently. Coming from Cambridge in the P.M. stopped in the Fresh Pond marshes from 6 o'clock to 7.20. A snipe began to sing at 6.45. He was darting about high up in the air while singing (several hundred feet, I should judge). Am not sure that there was more than one. Each time the peculiar crescendo, rising notes lasted about 3 seconds. A Sora sang a few times about 6.45 and a Virginia Rail (?) was calling as I heard them last July and August (kek-ek, kek-ek, kek, kek, etc.) See July 13, Aug. 2, Aug. 12, 1889.

Sunset, 6.25

16. Only one woodcock performed to-night and he not till 7.15. Heard little but the nighthawk-like peek, peek. The Amphibians were heard are Hyla pickeringii, Bufo, and to some extent Rana halecina and Rana sylvatica. Mouse-ear in flower.

Fulica

17. Heard the woodcock (one bird) again last night, and saw the whole flight second time from start to finish. Began at 6.50 and ended at 7.20. The nighthawk note is repeated while the bird is on the ground for 40 seconds to 2 m. 10 s. then the bird starts up in a diagonal flight (20° or so) with the peculiar whistling trill which is continued as the bird ascends in a large spiral to a height of several hundred feet. As he descends the peculiar yaup, yaup, yaup notes (undoubtedly vocal) are given alternating with the whistle, the bird during this part of the performance seeming to be in an ecstasy, then he descends in a quite steep curve to the spot whence he rose. The whistle is continuous till the yaps come in towards the end. The area covered by the flight is very great. Flight lasts from 45 to 50 seconds, the yaps occurring during the last 10 seconds. Each time the bird starts from near the same spot and tapes the same course. Motion of wings very rapid in the flight. Saw 3 or 4 flights, then too dark to see any more. Altogether he made perhaps 10 ascensions. Sunset, 6.28.

18. Cool. To Hahnatin A.M. with B.T. Saw a number of Holboell's and Horned Grebes, which now seem to be in nearly summer plumage. One Merganser, several White-winged Coots, a few Whistlers & Buffle-heads. Did not see one Gull! In the afternoon went to the Fresh Pond marshes. T. saw one Coot. Heard the Sora and Va. Rail at

Snipe "drumming" a little before 7 P.M. The evening was very cold and windy. White-bellied Swallows flying over the marshes all the P.M. to the northward. Without doubt migrating birds.

19. One Barn Swallow this morning. In the evening I went with A.P.C. to hear the Woodcock again. Two were performing, one in the same spot as before, the other further away. The main bird began at 6.55 and ended at about 7.20. The start from the ground to-night was in another direction from what it was on the evening of the 17th. The flight could not be seen as well as before on account of the cloudest sky. Crept up behind a boulder within 20 yards of the bird. Here the peep had a vibrating, almost flutant, quality. Could hear the whirr of the wings as the bird swept to the ground. C. then took a position within 15 ft. (he thinks) of the bird as it made its swift descent. The bird perceived him, did not peep, but made a low cooing sound (which I could not hear), then flew off with the characteristic whistle (which is the same sound as the whistle when the bird moves) to more removed ground, where he resumed peeping and soon made another ascension, during which we retired. There was no other sound perceptible to either of us while the bird was peeping. Very still evening. The bird overhead looks like a big bat. Equisetum arvense. Sanguinaria in flower for some days.

20. Bittern booming in Rock Meadow this P.M. Went to hear the Woodcock in the evening. He began to peep at 6.55, made his first ascension at 7. Ceased at 7.25. Did not make more than six ascensions. After he attains his greatest height his flight appears to be irregularly here and there for a time, without describing any circles. The

wind was east (but light), and he sprang up with it to the westward, then swung around to the south, describing a left-handed spiral. I think he has done this every night, i.e. taken his start down the wind — then circled to the left. He alit in different places within an area of 20 rods square. The place is on the edge of an open, rocky pasture, with scattering Pitch Pines, near a Grey Birch grove.

21. Heard the "Cut-to" (Sora Rail?) in the Tussock Bog Swamps this A.M. and again in the evening. Also Snipe in the evening. One Coot in same place as on the 18th.

22. Caltha palustris and Ranunculus fascicularis in flower. Lycæna lucia and Black Flies. To the Woodcock ground in evening. He performed from 6.55–7.25, making about 6 ascents. On the downward flight he scales off before touching the ground: ↓ During his second ascent (about 7 o'clock) I took position against a boulder near the spot where he had been peeping and he alit 8 yards from me as measured by pacing. He immediately began to peep, but on my making a slight movement he ceased and uttered a low twit'l for some seconds, and then took a short flight to a further point where he resumed peeping and soon made another ascension. I did not see him till he began to utter the twit'l, when I could see an apparently backward movement of the head with each utterance. He stood on the path when he peeped, and the twit'l was uninterrupted by a single peep. To-night he appeared to rise against the wind (to the south). When he alit the next time

23. The birds were humming as late as 9½ o'clock, when I came away.

23. Erythronium and Anemone nemorosa flower. Chiococca americana opens webs. Lindera benzoin fl. Male Goldfinches now in full summer dress.

25. Ceanothus varia seen by E. F.

I could not see him it was so dark, or else because he was further away from me. After his last circuit he came down some distance away from his habitual place. After he attains his maximum height he flies about in an irregular manner for a time.

23. To Weylands in P.M. No Bittern or Marsh Wren heard. To Hill's Crossing in evening to hear the Snipe. Two or three performing. Saw the flight three times. Describes a big circle with irregular flight, occasionally darting like a Nighthawk. The notes are in a crescendo, sometimes sounding all of the same pitch, again rising a little, with a fall at the end diminuendo.

Viola sagittata, Potentilla canadensis flower. Cicindela 6-guttata appears.

24. Am White-throated Sparrow in the Fort Pond Swamps this morning. Flock of five Pine Finches in the Norway Spruces in the yard in the afternoon. Monday (73°) with a shower in afternoon. Saw Virginia Rail near Fort Pond. Since about the 9th have had no rain — good part of the time cool, with a NW wind.

25. Rain in the morning, wind NE, temp. 42°.

26. Cool, cloudy, rather windy. Walked over Arlington Heights to Mystic Pond and return in morning. Saw Black-throated Green Warbler (male, singing), one Golden-crested Kinglet, two Ruby-crowns. Good many Snowbirds still and some Tree Sparrows. Saxifrage and Acer platanoides are in blossom. In the evening went with E.E.F. to see the

May 1. Baltimore Oriole seen by Mr. Jack, another reported in Cambridge.
May 2. An ♂ Hummingbird – C. E. F.

Woodcock. Built a strong easterly wind with some rain. The bird made his first ascent at the accustomed time (about 7 o'clock). Only made two excursions. Sprang up both times against the wind, describing a left-handed spiral.

27. Cold, east rain. Two Brown Thrashers singing near corner of Marsh and Winter Sts. in N. W. Good many Yellow-Redpolls. One Junco and several Tree Sparrows (singing).

28. To Fresh Pond Marshes in evening with E. E. F. Heard but one Snipe drum — and that only twice. The double whistle of the Sora Rail is now common in these marshes. Rue-leaved Anemony in blossom. Two Brown Thrashers to-day and one Black-throated Green Warbler.

29. Walked over to Lexington in AM. To the woodcock ground in Pine, but heard nothing of the woodcock. Southerly but rather cool wind. 3 Juncos.

30. Warm, southerly wind. Over Arlington Heights to Mystic Pond. First Least Flycatcher, Black-and-white Warblers, Spotted Sandpipers, and an Osprey (at Mystic Pond). Vesta sedata in flower. Picris rapae.

May

1. Very warm — wind Southwest, 80°. Up Beaver Brook to Rock Meadow in morning. 38 species of birds. New arrivals: Pipilo (male and female), Dolichonyx (one singing in the meadow), Dendroica aestiva (four or more), Compsothlypis (two), Vireo flavifrons (one). Tree Sparrows, Red Crossbills, and Rusty Blackbirds still here. In the afternoon the wind suddenly veered round to the North, with a distant shower (between 3 & 4 o'clock). At this time, hearing Chimney Swifts, I looked up and saw a flock of about ten at a very great height (several hundred feet) apparently checked in their course by the strong north wind. Bellwort in flower, also Cherry, Forsythia and Japanese Magnolia. Mayflies.

2. Cooler. Wind N., then E. To Mystic Pond. Vireo gilvus (four),

V. novaboracensis (two), Chiracla riparia, Dendroica discolor (one). Ave gnaeus hiemalis. White Willow and Viola cucullata in blossom, also Betula papyracea (in advance of B. populifolia). Dendroica aestiva generally distributed. D. discolor jerks the tail almost as much as D. palmarum. Tail elevated in Hermit Thrush, depressed in D. palmarum, Sayornis phoebe, etc. (?) Dendroica coronata appears

3. Thro' Fresh Pond swamps in A.M. Shad-bush and Viola blanda in blossom. Three Wood Ducks (note gnâ, gnâ, rather nasal), three Maryland Yellow-throats and one White-eyed Vireo. The latter bird is silent now and keeps much to the tall trees, like a warbler. Several Swamp Sparrows. To the same place again in evening with H.B. No Snipe. One Veery (not singing). Soras whistling, but did not hear the cut-tah notes. Many of these birds now abbreviate the second note of the whistle and lack depth of tone. Heard several Virginia Rails, too, but no trace of the "Kicker" of last June!

4. Warm, southerly wind, showers towards 1 & 2 o'clock. Up Beaver Brook and Rock Meadow in the morning. Two Redstarts and two Chestnut-sided Warblers, one Wilson's Thrush. Colias philodice for the first time this year. Heard the "cuttu" in Rock Meadow.

5. Thunder-shower last night with another this morning. Warm day, south wind, temp. 70°. To Mystic Bud in A.M. Two Baltimore Orioles, three House Wrens, one Golden-crowned Thrush. Dendroica virens seen now to-day; both songs are sometimes sung by the same bird: - " " " and " " " " " To the woodcock ground in the evening. Heard nothing of the woodcock. Trav-lor's trill. Columbine in blossom.

6. Heavy rain in afternoon. Rose-breasted Grosbeaks arrive. The cherry-trees are now in full flower. Plum and Pear also in blossom.

7. Buck-bean flowers. One Red-eyed Vireo seen.

8. N.E. rain in P.M. Apple-trees beginning to blossom.

10. Summer notes of toad heard to-night for the first time, also bullfrogs.

11. Allium tricoccum grows plentifully near the brooks in the woodcock ground back of Helmet Hill, Waltham.

14. There is a colony of Short-billed Marsh Wrens in Rock Meadow.

C. E. T. saw four white-crowned Sparrows about May 13 (Brookline) and one May 24th, near Purgatory Swamp, Dedham.

9. Cool and pleasant. A Yellow-billed Cuckoo on the roadside above the Belmont Spring. Very tame and silent. Only once opened his mouth to say cuck, cuck, cuck.

10. Light rain. S.W. wind. Viola pubescens in flower. Piranga erythromelas (one), Dendroica cærulescens (one), Helminthophila chrysoptera (one), Siurus noveboracensis (one). To Fresh Pond marshes after supper. One or two Cistothorus stellaris singing (a little after seven o'clock) by the Mass. Central R.R. just beyond the bridge near Hill's Crossing. No C. palustris. Heard nothing of the kik-kik-kik-ki-keer. It looks now as if it could not have been the Virginia Rail! Pirus japonica and Viola lanceolata in flower.

11. N.E. rain last night, clearing this morning. To Rock Meadow in the morning. A Short-billed Marsh Wren singing near the Willows. Over Helmet Hill in afternoon. One Swainson's Thrush singing, one Black and Yellow Warbler, etc.

12. To Walden in P.M. A few Herring Gulls seen. No shore birds. East wind. Chrysomitris americana appears.

13. Saw one Humming-bird among the willow-blossoms in Rock Meadow. Lycæna comyntas sp.

14. Warm, south wind. Contopus virens, Dendroica striata, Passerina cyanea, Chordeiles virginianus. 78° in the shade. To Hill's Crossing in evening. At 7½ o'clock a Sandpiper (Solitary?) came zig-zagging down and alit near me on a mud-flat, calling tweet, tweet. Then discovered two, very active, taking to wing frequently and calling tweet, tweet. Celandine in flower.

15. Rain, S. wind. Spent the day on Concord River with W.B. Saw one Wilson's Blackcap, one Osprey, etc. Weather unfavorable for ornithological success.

16. Warm, pleasant day, wind S.W. Temp. 78°. In morning walked thro'

16. A bobolink, taking to wing at mean range, [illegible] perceptible whistle with its wings.

the Willows, Wellington Lane, to Waltham via Forest St. Saw 69 species of birds, the following for the first time this season: Dendroica blackburniae (one), Silvania canadensis (two), Tomotichia lineophrys (one, near entrance of Wellington Lane, on Waltham St.), Sturnodramus pasuinus (one). Rusty Grackles. To Payson Park in P.M. Five Red Crossbills in the Norway Spruces and Larches.

17. Walked to Bedington after breakfast this morning. From there drove over to "Nonumbega" and back and walked home from East Lexington just before supper. Beautiful, rather cool day, with N.W. wind.

18. Another superb day, like yesterday. Around Rock Meadow and home over Walnut Hill in P.M. Saw Olive-sided Flycatcher near Beaver Brook just above the upper Mill Pond. Wild geranium in blossom. The apple blossoms are now about at their best. Robins began to sing this morning at 3.15, Chipping Sparrows at 3.45.

See May 22

To Mill Cunningham evening with W.B. & Mr. Chapman. Two or three Marsh Wrens (Long-billed) singing in the Cat-tails between Fort Pond and the Fitchburg R.R. Two Wood Ducks, one Night Heron, one Wilson's Snipe! (flew up but did not drum). Heard the loud rail-like note of June 3, '89 repeated two or three times, also a Florida Gallinule (acc. to Chapman, who has heard the same notes in Florida Cardinals mistaken for their owners). Also the cry of a Least Bittern. All of these in the same place with the Marsh Wrens. The notes of the Gallinule resemble the notes of a struggling hen, sometimes passing into tones resembling those of a brooding hen. Occasionally clucking (as we heard in the marshes at Waylands last year). Before I arrived B. & C. saw the Least Bittern. They did not see him cry, but finding him here with the cry is corroborative of Dr. Fisher's opinion that the Least Bittern is the author

of the notes.

19. Warm, S Wind. To Concord with B.T., thence on foot by way of Pantry Brook to Very Pond. Only two migrants, viz. a White & Black and Blue ~~Yellow~~-back. Three Hermits Thrushes (in two places), all singing. A Fresh Pond Swallows in morning. At least three (probably four) Florida Gallinules (?). In the morning saw a White-bellied Nuthatch carrying food into a hole in elm-tree in Sudbury. Cliff Swallows collecting mud in a street puddle – a light dark tint, keeping wings raised over the back, constantly quivering. Papilio turnus (one). Cistothorus stellaris along Pantry Brook. One Ammodramus passerinus.

20. Another warm day, with south wind. Heard rain in P. M. Walked to Wellesley via Brook Meadow in the Glen. Few no migrant birds! Trientalis and Two-leaved Solomon's Seal in flower. Lilacs now in full blossom.

21. Cool, beautiful day. Went to Franklin Park on the Sangus Branch R.R. in the morning. Thro' the salt marshes to Oak Island. Shot one Ammodramus candacutus subvirgatus and saw a good many Least Sandpipers and a flock of 8 or 10 Winter Yellow-legs. A few Black-poll Warblers on Oak Island. Also saw Pectoral Sandpipers (?). Took dinner at Lynn and walked over to Little Nahant in the afternoon. One Piping Plover on the ocean side of the beach. When first approached he ran rapidly up the beach to the dry sand where he evidently depended upon the resemblance of his color to the sand for concealment. After a while, apparently making up his mind that I intended him no harm, he returned to the water's edge and resumed feeding.

B.T. saw one of the Florida Gallinules this afternoon at the Fresh Pond swamps.

22. Cold, easterly wind. To the Fresh Pond swamps with W. B. Saw one of the Florida Gallinules several times in the ditch on the Fitchburg R.R. side of Fort Pond. Swims like a coot, flies like a rail. Much given to bathing, standing on the edge of the ditch. Once saw two (evidently ♂ & ♀) swim out into the ditch. One of them showed a good deal more white under the tail than the other. Besides the notes spoken of before, they have one resembling the cry of Rana clamitans when he dives into the water. There are at least two pairs here. B. found some 15 nests of Rails (probably Virginias for the most part) with young escaped. One Va. with eggs and one Carolina's with fourteen eggs. The female on leaving the nest <u>whimpered</u>. At least one of the empty nests was a Sora's, as shown by the fragments of egg-shells contained therein. "On looking up my Rail notes I find that I used to get most of my eggs the first week in June: earliest date, May 24, 1870 (two nests, one 4 eggs, the other 7 eggs, all fresh & sets evidently not completed). The earliest date on which I have hitherto found young of Virginia Rail out is May 29 (1869)." W. B. <u>in litt.</u>

23. Cold east wind. To Mystic Pond in morning. To Rock Meadow in evening: one Bittern and about two Whip-poor-wills, the latter thin side of the meadow. Choke-cherry & Barberry in flower. Noticed several Canoe Birches in the little grove on the lane that continues Beach St. on the west side of Lexington St., Waverley.

Song of Blue Golden-winged Warbler: <u>dzee</u>, <u>dzee</u>, <u>dzee</u>, <u>dzee</u>, <u>dzee</u>. sometimes, <u>dzee</u>, <u>dzee</u>, <u>dzee</u>, <u>dzee</u>, <u>dzee</u>, <u>dzee</u>.

24. Pleasant. To Rock Meadow in morning. One Dusky Duck flew over. To Mill's Crossing in the afternoon. The

The Cliff swallows seemed to be repairing old nests and constructing some new ones.
Two colonies of Bank Swallows, one on RR bank and one beyond the Cliff Swallow colony.

Gallinules went thro' their customary ablutions in the ditch. At one time two appeared together, one chasing the other, evidently ♂ & ♀, uttering a tik-it, tik-it, tik-it. Also heard a coming note resembling the Least Bittern — was it one of the Gallinules' notes? No doubt the loud notes heard June 3d 1889 and May 15 of this year were produced by the Florida Gallinule.

26. To the salt marshes of Rowe between Oak Island and the Salem Turnpike with W.B. Between 20 & 25 Ammodramus caudacutus subvirgatus. No caudacutus typicus. These birds were for the most part along the edges of the creeks and ditches often running along the mud on the edges of the ditches. One alit on one of the stakes upon which they stack the hay to keep it above tide-water and was here shot. Secured 10 specimens altogether. Only note heard was a sharp chip. East wind, cloudy. Three Herring Gulls. Only one or two Limicolin birds seen — none identified.

27. Rain (warm) all day.

28. To Wayland in morning. Found no Crested Flycatchers where saw them last year. Both kinds of Marsh Wrens in the small piece of marshy ground near the hotel on the road running down to the river. Colony of Cliff Swallows (60+ nests) on barn near the second bridge below the R.R. Note something like a hoarse barn swallow, at times squeaky. One bird repeatedly stole mud from the unfinished nest of a neighbor during his absence.

A Yellow-billed Cuckoo is established in one of the adjoining places. His notes are hard, dry and unmusical compared with the Black-bills and are well represented by Maurice Thompson (By-ways & Bird-notes, p. 148). But at times he coos, throwing his head forward and swelling his throat at each coo. Tail often raised, a la Hermit Thrush. Neomyrpha

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very thin on the wing. It seems to me that the Yellow-billed Cuckoo is less shy but more silent than the Black-bill. I have identified by eye their nests five Yellow-bills to one Black-bill. I think that last summer the Black-bills were much more numerous than they are this year.

29. To Hill's Corner in the morning. The Red-winged Blackbirds have young fledged, some of them, while other nests still have the young. Heard the Bobolinks, but did not see them. White-weed in blossom.

30. Pleasant, easterly wind. To Rock Meadow in the morning. A Traill's Flycatcher (singing) by Beaver Brook at lower end of the meadow. Black-billed Cuckoo's nest with two eggs - built in a blueberry bush about 1½ to 2 ft. from ground. The apparent alternate wing-strokes of the Chimney Swift are an optical illusion. Whenever the bird flies head or tail on the wings work together. When seen in side view they appear to act alternately, an appearance due to the foreshortening of the outer extent of the bird and to the frequent shifting of the transverse plane of the body in the Swift's erratic flight.

31. Beautiful day, northerly wind, but hot sun. To Franklin Park in the morning and across the salt marshes to Oak Island. Three American Cormorants circumvolant, recall our Lincoln bird, not identified. Blue Iris and Yellow Water-lily in blossom. June-bugs.

June

1. Another perfect day, temp. 77° F. To Rock Meadow in the evening. The bittern was stake-driving up to 8 o'clock when I left the meadow. The second note (the blow upon the stake) carried furthest to-night. The chief Ame-

phibian sounds in the marshes now are those of the Rana clamitans and Bufo. The fire-flies were noticed for the first time this season. Heard no Nighthawks or Whippoorwills, but saw several Night hawks.

2. Pleasant. Am Compsothlypis americana and one Helminthophila chrysoptera in the Oak woods on the Granite bridge, Waverley. The latter is undoubtedly breeding. To Mills Corning with C. E. P. in P.M. The Gallinules made but little noise and did not show themselves. To Rock Meadow bound evening.

3. Pleasant. To Mystic Pond via Arlington Heights in AM. Pair of Crested Flycatchers in apple orchard on Wellington Hill. Five pairs of Horned larks. Linnaea borealis in blossom. Am of the Crested Flycatchers made a vicious stab at a poor Horned lark, felling him to the ground from whence he arose not till I walked up to see whether he was dead or no. A Veery singing in the thicket below the house in the evening with a voice very much like Bicknell's Thrush.

4. W. B. writes that in a recent trip on the Sudbury River he found (heard) a Florida Gallinule and a Least Bittern on West Brook at Wayland. Also saw an Orchard Oriole (in immature plumage) near the second highway bridge below the Railroad. A Morning Warbler singing in his yard on the morning of the 2nd. This afternoon I went to Wayland. Heard a Fla. Gallinule on edge of the river above the aqueduct bridge. Found only a Baltimore Oriole in place of the Orchard Oriole. Blue Yellow-backs and a Yellow-bellied Flycatcher (heard only - pee) in the swamp on the way over to the highway by the left bank of the river. The Veery singing again below the house in same place

Some of the Sabinii's eggs were quite fresh, others far advanced in incubation, as if laid by two birds!

June 1890.

as last night. He varies his song from a very, very, very, very to very, very, very. The first form is very similar to Wilson's Thrush, but the pitch of the second two varies is higher. The second form is almost the same as the song of the Bicknell's Thrush on Mt. Greylock two years ago. The quality of tone of the whole is curiously like that of Bicknell's. Springy flowers.

5. Went down to Hill's Crossing at 9.17, meeting Brewster a hunting for the Gallinule's nest near Pout Pond. Found it after about an hour's search — 12 eggs. The nest was in an exposed situation at the edge of small growth of White Spiræas, the base of the nest below the water. Surrounding water about 15 in. deep. Nest built of cat-tail flags (dry), lined with dry huckle-grass. On one side an approach was built in the form of an inclined plane of cat-tails. Depression shallow. The whole affair was very conspicuous, B. first seeing it some 8 yds off. Flushed a Least Bittern. The Bicknell-like Veery again seen in the evening in the thicket below the house.

6. Cloudy with light rain. Mourning Warbler singing this morning near corner of North & Prince St. Olive-sided Flycatcher singing near the same place (Waverley Oaks). At P. M. went to the French Pond swamp with Mr. B. Found the Least Bittern's nest (with five eggs) near the place where I flushed the bird yesterday. Nest some 2 ft from the water line in isolated bunch of cat-tails. Eggs much like Quekoo's in color. Flushed another Least Bittern in the cat-tails between the Fitchburg & Mass. Central RR.

7. To the Revere Beach marshes with W. B. From Atwood.

sturnus canadensis subvirgatus, and a colony of A. canadensis (sans about six). The latter were near southern side of Oak Island. A Swainson's Thrush singing in Oak Island. Heard what Brewster thought to be a Golden Plover. The A. canadensis are distinguishable even on the wing from A. subvirgatus.

9. To Mill's Crossing after supper. Not a Bartram Sandpiper! Found the Least Bittern crossing where the nest was found.

10. To Weymouth with W.B. Took a horse & buggy & drove to the place where B. saw the Orchard Oriole. Did not find him. From there over to the Wayville Inn, Fairhaven. Pair of White-bellied Nuthatches in the orchard near the house. Two Blackburnian Warblers singing in the pine woods near Wayville Inn Station, in the same place where I heard them last July 17. Also two Solitary Vireos. Found nest again of them with four nearly fledged young. Saw four Morning Doves. Not scarcely of Judge's-birds nor Cedar-birds in this region. On beach to the east of the one mentioned May 28 there is a colony of 120 nests of Cliff Swallow (90 on SE side, 30 on NW). This is the colony mentioned Aug. 9, 1889.

11. First indications of Robins going to the Beaver Brook roost to-night. A dozen or so made their way over in that direction about sunset.

12. Crested Flycatcher still on Wallington Hill. Undoubtedly breeding there. Five pairs of House Wrens in the Apple-orchards in that neighborhood.

14. Went thro' the salt marshes of the Neponset near Atlantic Station and those by Squantum Neck. Found no Sharp-tailed Finches.

15. To Fresh Pond swamps in morning. At least two Gallinules in two places among the cat-tails close to the F. R.R. tracks. Probably are wandering with young. In eve. drove to Weston and back with Dr. C. Heard a Yellow-winged Sparrow singing in field near the road in Weston.

17. Warm, pleasant. To Prospect Hill, Waltham in A.M. Saw about seven Prairie Warblers (singing), also two Golden-wings.

18. 84° F. in the shade, but with pleasant westerly wind.

19. Another warm pleasant day. Spent the day in the Revere marshes with R.B. In walking from Franklin Park to Oak Island saw but one Sharp-tailed Sparrow (Subvirgatus?). The colony of caudacutus is very extensive, extending well up towards Crescent Beach Station. We found seven nests, one with five young about ready to leave the nest (copy of young), three with four eggs (two of the eggs in one of these nests hatched during the afternoon), one with two eggs, and two empty. One of the nests was in the grass beside the B.&M. Branch R.R., one was in the Juncus gerardi away from the water, the others near the edge of the Ditches. The second-named was raised several inches from the ground the others were on the gravel. Some of them were built under dead grass. The flight of these birds on their breeding ground is similar to that of the Marsh Wrens. Note the kup, kup (somewhat resembling the diagnostic note of the Song Sparrow) heard on the wing. Song (delivered while the bird is perched on grass or stalks) resembling in its first part that of the Sharp-tailed Sparrow, the second part that of Long-billed Marsh Wren. One gave a flight song somewhat

Birds noted by W. Brewster on Martha's Vineyard, June 28, 1890.

I. On drive from Cottage City to West Tisbury (20 m.). 7–11 A.M.

× v = heard or seen in W. Tisbury.

× 1. Turdus 100 (10×)
2. Fulvescens 50 (30×)
3. Hylocichla mustelina 200
4. Sialia 5
5. Parus atricap. 3 × 2
6. Mniotilta 3×
7. Dendroica pensylvanica 10×
8. " discolor 8
✓ 9. " aestiva 6×
10. Sirinus aurocap. 15×
11. Geothlypis trichas 30×
× 12. Setophaga 2×
13. Tachycineta 20
14. Chelidon 75
15. Progne 1 hd
× 16. Vireo olivaceus 20×
17. Passer 50
× 18. Carpodacus 3 (2 ×)
× 19. Spinus tristis 6 (2×)
× 20. Melospiza fasciata 10×
× 21. Spizella socialis 20 (20×)
22. " pusilla 3×
× 23. Pooecetes 50 (20×)
24. Pipilo 100 ×
✓ 25. Ammodramus 30
26. Coccyzus americ. 1×
27. " erythr. 2 ×
✓ 28. Ceryle 2
× 29. Tyrannus 1×
30. Tyrannus 20
31. Contopus virens 8×
32. Corvus 6
33. Cyanocitta 4
× 34. Sturnella 20 (10×)
35. Agelaius 10 (2×)
✓ 36. Quiscalus 2
37. Icterus 3
38. Colinus 4×
39. Otus asio 6
40. " kennicottii 4

II. On drive from W. Tisbury to Edgartown, 1–5 P.M.

1. Turdus 100
2. Fulvescens 20
3. Hylocichla mustelina 200
4. Sialia 1
5. Parus atricap.
6. Mniotilta
7. Dendroica pensylvanica 3
8. " discolor 6×
9. " aestiva 1 (Edgartown)
10. Sirinus 10
11. Geothlypis trichas 30×
12. Setophaga
13. Tachycineta
14. Chelidon 100

different, and one bird had a song when at rest quite different from the normal one & quite indescribable. Occasionally we caught notes suggestive of those of Henslow's Sparrow. The song is the weakest ~~softest~~ of any bird I ever heard even when heard at 12 yds. If louder it would be quite a varied and fine song. The bird's station is very erect & hawk-like. When harassed they take to the ditches just like the migrant Seiurinæ.

20. Kennard shot a ♂ Prothonotary Warbler to-day on Charles River below Riverside (a little way below the stone bridge). He saw him in the same place on the 19th & watched him for about 2 hours in hope of finding his nest. He first discovered him there about June 15.

22. Brewster & Kennard spent this morning searching for the Prothonotary's nest on Charles River, but without success.

23. To Purgatory Swamp, Norwood, in P.M. Two Canada Flycatchers (one carrying food, the other singing not far off), a pair of Hairy Woodpeckers, three or four Blue Yellow-backs, and a Traill's Flycatcher singing in a favorable breeding-ground near the entrance to the swamp. Walked back to Readville to the 7.57 train for Boston. In the meadows heard one Bittern freely pumping, many Long-billed Marsh Wrens, one Virginia Rail, Swamp Sparrows, etc.

B. T. writes that he saw to-day a Ruddy Duck ♂ in the flesh, just taken in Charles River, at the taxidermist's in Sudbury St., Boston [Goodale's?].

24. To Baker's Bridge, thence walked to Concord via Walden Pond, & to White Pond and over to Lincoln. Male Blackburnian Warbler in full plumage, singing in the tall pines by Thoreau's hut

15. Progne
16. Hirundinaceus 10
17. Passer 10 (Egyptiacus)
18. Carpodacus
19. Spinus tristis 2 ×
20. Mulvoptiza fasciata 105 ×
21. Poecetes 100 (40 ×)
22. Ammodramus savannarum 20 (10 ×)
23. " passerinus 10 (2 ×)
24. Spizella orientalis 25
25. " pusilla 3 ×
26. Pipilo 200 ×
27. Procyzus aurar.
28. " erythr. 2 seen
29. Cinyla 1
30. Chaitura 20
31. Tyrannus 20
32. Contopus virens
33. Corvus 15
34. Cyanocitta 2
35. Sturnella 20 (10 ×)
36. Agelaius 20 (6 ×)
37. Icterus 10
38. Coluptes 3 (1 ×)
39. Olivicola (plumage at Cape Poge)
40. Corvinus 2 ×
41. Circus 1
42. Sterna hirundo 15
43. " dougalli 6
44. " antillarum 12
45. Larus delaware. 1
46. Totanus melanoleu. 1 ad
47. Actitis 15

Actitis macularius 1 ♀ July 3. Botaurus lentiginosus 1 June 30.

near Walden. Another on edge of White Pond, also in White Pines. White-bellied Nuthatches feeding fledged young near White Pond. Warm day, 86°.

25. Heard the notes of Goldfinch fledglings for the first time to-day.

28. To Purgatory Swamp, Norwood, with E.T. & B.H.T. The Traill's Flycatcher singing intermittently in same place as on the 23rd. At Henslow's Sparrow singing in the meadow beyond the swamp, near Purgatory Brook. Three female Blue-Yellow-backs and two Canada Flycatchers. Com. Lilyfl.

29. To Oak Island with E.H.T. Walked along the edge of the meadow to Linden. The Sharp-tailed Sparrow's nest that hatched two young on the 19th had one young one in it nearly ready to leave the nest. Found one nest with four young on the west side of the Eastern R.R. Also a Savannah Sparrow's with three young, built of grass in a little patch of Johnson grass resting on ground, but not sunk. Very exposed. Found another colony of thick-tuffs just to the east of the oak point half way between the Salem Turnpike and the Saugus Branch R.R. Heard a few Sharp-tails sing.

July

2. Went thro' the Charles River marshes, Cambridge, from the Brighton St. bridge down to the Brookline Bridge. Nothing but a few Savannah Sparrows and large numbers of Swamp Sparrows.

4. To Hingham's Neck, Quincy, in the morning. Saw nothing of special interest. Warm, with showers toward noon.

5. To Falmouth to spend Sunday (to-morrow) with W.B. On the morning of the 25th June B. heard the mysterious bird of last season in a meadow grown to coarse grass and sedge near his house. On the following day he

6. A partridge with brood of young near Long Pond uttered notes unlike any I ever heard from this bird before. Some resembled one of a White-bellied Nuthatch – others of some of the notes of the Florida Sparrows! This even after the young had taken to refuge among the bushes.

8. Seaside Goldenrod in flower.

found a nest near the spot where the bird sang – a grass-woven domed nest with a small entrance on one side. Bird not heard since. This morning he took the nest which appears to be newly-built & ~~not~~ new & blue contained eggs. Now it we found another, apparently a last-year's nest of the same bird. Little Black Rail?

6. Warm, pleasant. In the afternoon drove over to Long Pond. In this neighborhood the Hermit Thrushes are quite common. Heard six or so singing. They are in a scrub growth of oak (black, scarlet & white) and pitch pine with undergrowth of blueberry, etc. Many Prairie Warblers, two Blue Yellow-backs, one White-eyed Vireo (not singing), etc. Red-eyed Vireos abundant, but no Warbling or Yellow-Throated. Wilson's and Roseate Terns and one Summer Yellow-legs on the Beppu's Bay side. The Yellow-legs even flying over. Wing-strips of Roseate Tern quicker than that of Wilson's Tern.

7. Returned to Waverley. Warm, pleasant day, 86°.
After supper counted the Robins going to the Belfry Brook roost from the rocky knoll between Morse's house and the cascade: 7.10–7.15, 2; 7.15–7.20, 4; 7.20–7.25, 3; 7.25–7.35, 8; 7.35–7.40, 1. Total, 18. Sunset, 7.23 in a cloud. Wind SW.

8. Hottest day of the season, 92° in the shade. Wind SW. Went to the Hopewell marshes at the foot of Milton Hill in the afternoon with C.E.F. Found a small colony of Sharp-tailed Finches (5 or 6 seen). In full song. Probably under way with second brood. Locality rich in Juncus gerardi which indicates level just above high-water mark.

12. Around Prospect Hill, Waltham in morning. A few Towhees and Black-throated Greens singing but no Brown Thrashers or Prairie Warblers. So July list for birds was singing.

13. Count of robins from piazza tonight, 42, 7.10 to 7.45. Sun

sets, 7.20. Many sing in the trees near the house preparatory to taking their flight to the roost. The only two whose plumage I have seen out with certainty were fuzzy with a spotted breast. Do the birds of the year sing?

14. Walked over the salt marshes from East Saugus to Oak Island this morning. Found a colony of Sharp-tailed Finches between E. Saugus and the Salem Turnpike, not far from the Saugus River. This bird affects places where the Juncus gerardi grows because this plant indicates the level just above high-tide. Ditches or tide-pools also seem to be a sine qua non. These afford concealment and perhaps food for the birds. Saw about eight birds, several of them singing.

15. Therm. 89°. Wind SW. There has been no rain of any consequence for a month. Went to the robin roost in the evening. The headquarters are in a dense maple swamp along Beaver Brook not far below the lower end of Rock Meadow. The roost is already very populous. A large part of the birds are spotted-breasted young, but among them I detected a few adults. Considerable singing heard. Saw a flock of nine ducks flying westward.

16. Therm. 89°. Wind NW! The early-morning song of the robins at about 4 o'clock is different from that heard from them later in the day. It ends with those high notes that the bird has so much difficulty in reaching, while later in the day these high notes are altogether omitted. Count of robins from the piazza to-night 84, 7.15 to 7.50. Sunset, 7.14. Clear.

17. 84°. To Mystic Pond via Arlington Heights and Turkey Hill, returning by Mount St., in the morning. Pair of Solitary

Melrose robin-roost (B.S.) count from eastern end, 1892.

July 4	383
" 10	765
" 12	970
" 14	1120
" 16	1064
" 17	1333
" 19	1554 (50 more than largest count of last year)
" 27	2314
Aug. 15	745
" 20	401
" 24	663
" 27	854
" 29	342
Sept. 2	650
" 19	320
" 29	6

July 1890

trees in the Linnæa Woods, as last year. Heard the Harvest-flies for the first time this year. Saw one bat in Waverley in the evening, and three ducks flying eastward.

18. To Lynn Beach and Little Nahant in A.M. Saw nothing of interest. In the evening counted the robins that entered the western side of the roost: 6.55-7.00, 4; 7.00-7.05, 17; 7.05-7.10, 18; 7.10-7.15, 84; 7.15-7.20, 76; 7.20-7.25, 63; 7.25-7.30, 59; 7.30-7.35, 68; 7.35-7.40, 22; 7.40-7.45, 9. Total, 420. A Short-billed Marsh Wren in the little piece of meadow on the edge of the roost sang, chipped, and chattered as I made my count, a Green Heron and many Crows flew overhead, and large numbers of Bobolinks alighted in the grass. As I came away a Woodcock got up with a loud whistle. It has been much cooler to-day, with NW wind. Still no rain.

19. A little rain this afternoon. Much cooler.

20. 61° at 7.45 A.M. wind N. Shower in evening. Robins from piazza, 35, 7.10 to 7.40. Solidago canadensis and Aster puniceus begin to flower.

21. 59° this morning, wind NW. Robin count from the kettle ½ m. from the roost: 6.35-6.40, 5; 6.40-6.45, 6; 6.45-6.50, 10; 6.50-6.55, 14; 6.55-7.00, 16; 7.00-7.05, 13; 7.05-7.10, 19; 7.10-7.15, 14; 7.15-7.20, 14; 7.20-7.25, 8; 7.25-7.30, 7; 7.30-7.40, 4. Total, 130. Sunset, 7.15. Went thro' the Fresh Pond marshes in the A.M. Saw one Least Bittern (male), several Green Herons, a few Long-billed Wrens singing, &c. Heard a few Rails (Va.?) squealing. Saw or heard nothing of the Gallinules.

22. 57° at 6.45 A.M. Wind SW, fair, shifting to E. later & to S. in evening. A male robin carrying food to nest in elm tree on Beech St., after depositing his burden flew off straight for the roost at 7.35 P.M. At least the bird that flew to the roost came out from the place where the ♂ bird went in a few seconds previously, and no other birds appeared to be in the neighborhood at the time.

23. One robin's nest in an elm tree by the house has three eggs — sitting. The nest on Beech

St. has three young - large - partly feathered. The ♂ again fed the young at about 7.30 P.M., then flew to the top of a spruce-tree on Mr. W—ts' grounds & after a few seconds took direct flight for the roost. Then the ♀ came and settled upon the nest for the night.

24. Lying awake this morning between 3 and 4 o'clock I heard the commencement of the robin chorus at 3.40 (sun rises at 4.29). Among the others could distinguish the Beech St. bird by a peculiarity in his song. Again noticed the peculiarity of the early-morning song remarked on July 16. Chippers began to sing at 4.05. In P.M. noted the robin repeat the performance of yesterday.

25. Rainy.

26. Rain - excessively heavy during part of P.M. At 4 A.M. cloudy when robins began to sing. About eight minutes later, song sparrows, then shortly meadow larks and chippers. The young robins in the elm in Beech St. left the nest to-day. In P.M. after the heavy rain a humming-bird worked over one of the Norway spruces - apparently drinking the rain-drops on the tips of the twigs, hovering from twig to twig as when sipping nectar from flowers. Count of robins from the piazza, 71, 7.00 to 7.40 P.M. Several flocks of red-wings blackbirds also flew over heading in the direction of Clematis Brook marsh.

27. Went to Clematis Brook marsh after supper. Large nos. of Red-winged Blackbirds roost here in the long meadow grass. Very few adult males.

28. Drove to Walden & back in the evening with Dr. E—ke. At little way this side of Robert's Crossing saw 6 or so robins flying over toward the river. Probably a roost on the other side of the river.

30. Very warm, 93.4° (Boston). To Prospect Hill with E. F. & C. E. F. Very few birds singing now - heard one Scarlet Tanager, a

few Red-eyed, Warbling, and Yellow-throated Vireos, Song Sparrows, Yellow Warblers, etc. The Robins in the nest near the house are now hatched — not many days old, apparently. Saw nothing of the ♂ x to-night — could not see the ♀ anywhere about. Count of Robins from the piazza to-night: 6.45–6.50, 24; 6.50–6.55, 21; 6.55–7.00, 4; 7.00–7.05, 61; 7.05–7.10, 18; 7.10–7.15, 21; 7.25–7.30, 2; total, 151. Sunset, 7.06 in heavy cloud.

31. Hottest day, 92° in Waverley (95° Sig. Serv. Stn., Boston). Thunder-shower towards night.

August

1. Cooler, with E. wind. Went to the knoll near the Cascade after supper. As I did not get there until after the robin flight had got under way, I made only a single count — about 270. Then walked over to the roost and found the birds streaming in in enormous numbers from the western side. As I approached the edge of the roost they arose like a swarm of mosquitoes from one side of the wood.

2. Warm, pleasant, E. wind. By steamer to Provincetown & thence to the Highland House, North Truro. Took a short walk on the ocean beach in P.M. Saw a good many Spotted Sandpipers on the beach, some Maryland Yellowthroats and large flocks of Red-winged Blackbirds in the Scrub Oaks and Bayberry bushes. In the evening, in the twilight (7½ o'clock), I saw two Long-eared Owls in the Pitch Pines above the house. They would hover around my head as if about to attack me and then alight on the fence-posts and dwarf Pitch Pines, occasionally uttering a low sound. I could see their ear-quills distinctly when they alit, only a few yards from where I stood.

3. Pleasant. To "Hell's Bottom" with E. S. M., Jr., in morning. This is a deep sink-hole, about 1½ m. from the Highland Light (See Auk, July, 1890, p. 228). In P.M. to N. Truro village (Pond Village) & along the Bay beach to Truro & back by the R.R. & fields. The White-bellied Swallows are already congregating in Pond Village. In the beach we saw Spotted Sandpipers, 70 or so Semipalmated Plovers, one Semipalmated Sandpiper, and 10 (Red-breasted) Mergansers. A man in Pond Village said that a "Plum-Pudd'n" or "Gobble Gutcut" (Bittern) lived in the cut-tail swamp opposite his house.

4. Pleasant, wind S.W. Up to Truro & back. On the way back saw a good many Limicolae birds on the edge of a small pond in a muddy-made cranberry-meadow near the RR (Great Swamp). Many Ring-neck Plover, three or four Summer Yellowlegs, and one Stilt Sandpiper. Bay-winged Bunting's nest with three eggs under edge of tuft of Hudsonia ericoides. Two Upland Plover in the pasture between Pond Village and the Highland House. When I flushed them they alit again in sight. Note, a mellow whistle usually 3 syllables.

5. To the Cranberry bog with M — in AM. Found nine Summer Yellowlegs feeding there, two Stilt Sandpipers and many Semipalmated Sandpipers. The Stilt Sandpiper is a size smaller than the Yellowlegs, legs shorter and darker, breast & belly barred with dusky. In stooping to feed his body has a pivotal motion — the hinder part rising, when the head is put down. The Yellowlegs, on the other hand bends the legs more, when feeding, & does not raise the hind part of his body. Shot the two Stilts (adult females) and

one Yellowlegs. Five Upland Plover in the fields. In P.M. went again to the same place & found nine Yellowlegs, four Pectoral Sandpipers, Semipalmated Sandpipers and Ringnecks. On the way back I shot an Upland Plover.

6. After dinner went up to Truro to stay at Mr. Cordes's

7. To two ponds on road from Truro to Wellfleet in A.M. In the woods, here composed of Black, White, and Scrub Oaks, and Pitch Pine, saw 3 or 4 Brown Thrashers, one Prairie Warbler, two Red-tailed Hawks, & one of each species of Cuckoo. The commonest birds in the woods were Blue Jays, Chickadees. After supper saw Dip or more Bright Storms along Pamet River.

8. To Highland Light by way Cranberry Meadow and back by the Ocean beach and Long Nook. Saw one Piping Plover on the Back Side. One Prairie Warbler (singing in an oak scrub pasture), three Black-and-white Creepers. Note the bright-colored Robins seen here (cause plumage?).

9. Rain, & E wind. In P.M. went along the Bay shore. Flock of Wilson's Terns, one Turnstone feeding on barnacles on the rocks, 10 Mergansers, etc.

10. Thunder-showers in early morning, pleasant thro' the day, wind S.W. To beach on the Bay side in A.M. In P.M. to the Back Side across the fields and back by Pamet River. Two Great Blue Herons flying off shore. Noticed Flicker's holes in the farm-posts of the grave-yard (a Bluebird's (3) nest in one of them) and in Telegraph-poles along the R.R. Such is the scarcity of trees!

11. Pleasant, wind NW. Same route as on the 8th. Sig Bartramian Sandpipers, one Oldsquaw hersficil-lota (close to Bay shore). Bay-winged Bunting mounting 30 ft or so in the air during flight-song.

12. Out to the bar on the S. side of the mouth of the river in st.m. Sig Turnstones, one Sanderling, one Black Duck, etc. In marsh on the other side of the RR saw one Tringa minutilla and one Totanus solitarius.

13. Cloudy. In a small Oak grove in Long Nook found one Blue Yellowback Warbler, three Black-and-white Creepers, one Baltimore Oriole, one Maryland Yellowthroat, etc. Three Black-backed Gulls on sand-bar in the Bay, in full plumage. Ovenbird in a sink-hole near RR.

14. Pleasant, SW wind. To marsh on other side of river in st.m. About six Tringa minutilla with large nos. of Eremetes pusillus. The Tringa is easily distinguished by its redder back, less distinct superciliary stripe, less white appearance, etc. Eremetes seems to be of a quarrelsome disposition, bedevoring particularly the Least Sandpipers. In PM by train to Provincetown. Similar glance on hillback of the main street (also saw it in Long Nook and further up the Cape in abundance on side of RR from train).

15. The note of the Turnstone is a rather low-pitched guttural rattle. The action of the Ring Plover when feeding is much like a Robin's — running along and then stopping and standing stock still. The Soli-

tary Sandpiper, like the different species of Aegialitis, in bowing raises and then depresses the fore part of the body. The same with the Yellowlegs. In PM found two Bitterns in the Pond Village pond — nothing else.

17. Pleasant, wind SW. To the marsh on S. side of RR station in the A.M. Large flocks of Ereunetes, some Tringa minutilla, two T. fuscicollis, one Totanus flavipes, one or two Tot. solitarius, one small hawk. In P.M. to Bay along the beach — flock of 12 Sanderling and large nos. of Semipalmated Plovers (note one young with incomplete breast band. Flock of 17 Herring Gulls. Caught plunging the sand with its bill in search food, leaving little furrows. The trill of Tringa minutilla is lighter than that of Ereunetes. The latter is rather a quarrelsome little fellow & often chasing individuals of its own species and especially spiteful toward T. minutilla.

18. Walked over to the Highland Hs. then meeting Mr — & driving over to the Eel Pond (East Harbor). On the way over to the Highland House saw two good sized flocks of Robins flying South (between 7 and 8 o'clock). East Harbor was formerly tide water until cut off from the Bay by the RR embankment (1868!). It is now a large, shallow, fresh-water pond skirted with the dense cat-tail swamp. We heard 8 Florida Gallinules (saw 4). They must be very abundant here as they responded every time we ~~splashed~~ splashed the water with the oars. Many Sora Rails, a few Va. Rails, two least Bitterns, 6 Bitterns, 4 Ruddy Ducks (Mr. shot a very young one here some days ago — they must breed here). One Grebe (Pied-billed?) one Nycticorax, one Bonaparte's (?) Gull, & 5 or 10 Marsh Hawks. Also an unidentified Duck with white under parts?

20. Returned home by RR in P.M. Raining noon, pleasant P.M.

21. To the Beaver Brook robin roost. 5.45–5.50, 25; 5.50–5.55, 28; 5.55–6.00, 97; 6.00–6.05, 92; 6.05–6.10, 107; 6.10–6.15, 100; 6.15–6.20, 50; 6.20–6.25, 94; 6.25–6.30, 138; 6.30–6.35, 156; 6.35–6.40, 178; 6.40–6.45, 168; 6.45–6.50, 26; 6.50–6.55, 5; 6.55–7.00, 4. Total, 1268. Sunset 6.37, cloudy, wind SW. Heard a song only twice in the roost.

22. Count of Robins from piazza, 261. Fair, Northwind. Birds flew high. Flock of 10 ducks flying Eastward.

24. Large flight of Robins to-night – but made no count.

25. 517 Robins counted from the piazza, 6.20–6.55 P.M. Clear, wind W. Dr. C. took care of the birds on the Belmont side. A curious dark-colored bird with flight like a Nighthawk, but twice as large (?) appeared on the ocean about 6.30 – wings very narrow.

26. Went up to the Payson place between 6 & 7 P.M. Observed the Robins making for the Beaver Brook roost as far off as the Stimson place and School St., i.e., 2 1/4 miles from the roost.

27. Drove to Watertown village after supper. Observed the Robins going to Beaver Brook as far as Watertown village – hit her side. Do not think they cross this thickly populated district. Distance from roost, 2 1/4 miles.

28. Went to the Robin roost tonight. The first two birds arrived at 5.45. Most of the birds first alit at a distance from the roost. I counted only those that I actually saw enter the roost – 192. By this mode of counting I probably lost a large part of the birds – those that sneaked in from near by. Came away at 7.00, when a few birds were still dropping in. Clear, Wind NW. Large flight of crows towards Rock Meadow. Two ducks flew over. Dr. B–e reports that a heavy flight of Robins passed over the house this evening.

29. Went to the rocky knoll near the Cascade in F.M. Arrived there at 6 o'clock. Immediately saw the flight of Robins toward their roosting-place. The flight lasted till 6.50. Counted 1523 birds. At the height of the flight they passed in such numbers that I could only get down a part of them. Moreover, a good many alit in the trees along the brook, and these were in a great measure lost in my count. Dr. C. counted 301 from the piazza, 6.15–6.45. Wind SE, air clear, but sky partly overcast with heavy clouds. Sunset, 6.23.

30. Count of Robins from piazza: 6.00–6.05, 78; 6.05–6.10, 23; 6.10–6.15, 63; 6.15–6.20, 120; 6.20–6.25, 101; 6.25–6.30, 63; 6.30–6.35, 81; 6.35–6.40, 174; 6.40–6.45, 101; 6.45–6.50, 7. Wind NW, clear. Sunset, 6.22. Total, 778.

Sept.

1. Count of Robins from hillside near Mill St., between the rest and Arlington Heights, 183. Dr. C. also counted 183 from the piazza. Clear, wind NW.

3. To the Chelsea Beach marshes in A.M. Ordinary Sharp-tailed Finches in the long unmown grass (Spartina) between the Saugus Branch R.R. & the Salem Turnpike. Shot two. One was A. caudacutus, the other A. caudacutus subvirgatus. Both moulting. One Great Blue Heron, one Night Heron, and flock of about six Bimicolae (Tringa maculata?).
On the afternoon of the 2nd H. B. in driving down from Waverley to Cambridge saw the Robins flying to the Beaver Brook roost far off as the Mt. Auburn Cemetery gate. To-night he saw a large flight pass over his house

But a person sent from to the west counted 215 birds in ten minutes at the end of the flight.

(cor. Brattle & Sparks St.) in the direction of the Beaver Brook wood, many coming from the direction of the Cambridge woods in Norton's Woods! We saw only two passers over towards Norton's Woods. See opp. page.

4. Twelve or more Night Herons in the Maple Swamp, Fresh Pond this morning. In the evening went to the Cambridge (Norton's Woods) Robin-roost with W.B. Arrived there about 6.15. We counted 1251 from the college play-ground. From this point one probably sees the greater part of those that enter the roost. One or two sang feebly once or twice — as did also an Oriole. A good many Chimney Swifts — probably as many as fifteen only seen, chippering as in summer, sometimes setting their wings as in courtship and lightly touching each other in flight. Several times one of them shot close by the twigs of a tree, as if about to alight or to break off twigs for its nest!! These swifts were probably migrants. The Robins finally became quiet at 6.40 o'clock. Hazy, wind East.

5. Only 76 robins passed over the place between 6.15 and 6.35. Did not go out of the house till 6.15, but do not believe many birds had passed over before that hour.

9. Up Arlington Heights this morning. Remarkable scarcity of birds of all kinds now, and no migrants. Squall about two o'clock P.M. wind suddenly swinging around from S. to East. Looking out of my south windows at 2.30 saw a large and compact flock of birds wheeling around from the westward at a rapid rate, soon appearing before the eastern windows & disappear-

Sept. 16. The Gray Birches are infested by an Aphis-like insect that eats the under side of the leaves making them appear as if scorched. Vast areas all over the country are thus affected.

ing to the Eastward. They may have been the sign of Peep-pukeepe's hook birds caught by the squall & brought inland.

11. Walked over to Lexington in the morning.

12. Showery, warm and sultry. In afternoon walked to Rock Meadow and that neighborhood. Saw fewer birds than on a mid-winter day! But few birds passed over to-night. Saw a flock of about 50 crows very much excited over a large eagle (?) over the Granite Ledge. One Chimney Swift making his way rapidly southward (about 5.45 o'clock).

13. Warm, with heavy showers in early morn. 84°. To the Fresh Pond marshes in morning. Maryland Yellow-throats the only warblers seen. One Long-billed Marsh Wren and one Carolina Rail. Sitting on the piazza in the latter part of the afternoon, saw a Purple Martin (adult ♂) flying Southward against strong wind.

17. Three Chimney Swifts at 7 o'clock this morning flying about over the place.

18. About 85 Robins flew over the place to-night to the Beaver Brook roost. Also five Chimney Swifts and one Nighthawk. Brewster writes (Sept. 18) that the Robins fly both ways over his garden of late, but always one way during any one evening. He also reports a Yellow Warbler (♀ juv.) in his garden on the 12th inst.

19. 53° at 7 A.M. Very pleasant. This month has been mostly rainy so far. Walked from Lexington to Concord by way of the Lincoln road & Concord turnpike. Saw one Bay-breasted Warbler. He was with a few Black-polls — showed a good deal of chestnut color below. Also one Blue Yellow-back and two Golden-crowned Wrens. A beautiful albino Song Sparrow — head pure white,

Melospiza lincolni.

May 13, 1872.	Belmont,	W. Brewster,	shot.		♂
" 17 "	Cambridge,	"	"	"	"
" 17, 1873.	Waverley,	"	"	"	♀
" 21, 1875.	Belmont,	"	"	"	"
" 17, 1877.	"	"	"	"	♂
" 11, 1887.	Concord,	"	"	"	♀
" 16, "	"	"	"	seen.	
" 21, "	"	"	"	shot.	♀
" " "	"	"	"	"	"
" — about '85,	Cambridge,	Grivale,	"		
June 1, 1875.	"	W. Brewster,	"		♀
" " 1876.	Lake Huntington,	"	"	"	♀

Sept. 12, 1870.	Cambridge,	H. W. Henshaw,	"	
" 16, 1883.	Swampscott,	Jeffries Bros.,	"	♀
" 15, 1884.	Cambridge,	W. Brewster,	"	♂
" — 1888.	No. Truro,	G. S. Miller,	"	
Oct. 8, 1870.	Watertown,	W. Brewster,	"	♂
Sept. 30, 1887.	Lake Huntington,	"	"	seen.
" 11, 1889.	"	"	"	shot in dense arbor-vitae swamp
" 22, 1890.	Cambridge,	W. Tryon.	1 [♂?]	shot
May 13, 1891.	Cambridge,	W. Brewster	1 not shot	
May 17, 1892.	Rock Meadow,	Belmont,	C. F. Batchelder	one shot.
" 20, 1892.	Concord, Mass.		W. Brewster	not shot
Oct. 2, 1892.	Lexington,	W. Tryon	1	shot
" 7 "	Arlington	"	1	
" 9 "	"	"	1	
" 10 "	"	"	1	

and body largely ov.

21. Around Prospect Hill, Waltham, this morning. Saw two White-throated Sparrows, both young birds with streaked breasts. One Blue Yellow-back. Very pleasant weather.

22. 45° at 7 A.M. Coldest night thus far. Through the Fresh Pond swamps in the morning. Great numbers of Song, Swamp, and Chipping Sparrows — evidently migrants. Shot a Lincoln's Finch ♀? in the edge of the little pond (Perch Pond) by the RR track to the Little Pond ice-houses. It was with Song and Swamp Sparrows. One Water Thrush, two Maryland Yellowthroats and some Black-polls — no other Warblers. Rusty Grackles.

23. Pleasant, 52° at 7 A.M. Through the Fresh Pond swamps again in the morning. One Green Heron, three Rusty Grackles, one Pine Warbler, one Black-and-yellow, a few Black-polls, a Sharp-shinned (?) Hawk, etc. No Connecticut Warblers yet! In the afternoon over to East Weymouth & up Arlington Heights via Appleton St. One female Yellow Red-poll D. palmarum hypochrysea on Marsh St. (Sept.) One Osprey, one Gray-cheeked Thrush, etc.

24. Pleasant but windy, wind NW. To Nahant in P.M. with B.T. On ocean side of Tower Beach saw an Ereunetes pusillus & Calidris arenaria, both very tame — approached with ten feet of the latter! Cedar-birds, Pewees and one Red-bellied Nuthatch at Little Nahant. Two Spotted Sand-pipers. On the way back, at the Nahant end of the beach, on the Bay side, saw two Golden Plover on the edge of the water. Very tame. When we started them up they took a short flight to the dead eel-grass higher up on the beach where their color effectually concealed them. Here they were both killed at one shot by a gunner who happened to come up. They were silent. Occasional bowing motion.

26. Thirty or more Chimney Swifts seen by B. Torrey!

Sept. 1890

25. To Rock Meadow and Arlington over the Heights & back by way of Fresh Pond Meadows. Saw many Yellow-hammers, one Sparrow hawk, one Peabody-bird. Three Yellow Redpolls in one place as on 23rd. Shot two of them. From a hurry examination of Brewer's Birds they would seem to be hyperchrysea (right) & Munkittrick's Warbler by Alewife Brook. Very pleasant day, 39° at 7 A.M. First frost last night.

26. To Waltham via Rock Meadow and Forest St. & Mourning Dove on Mill St. Winter Wren on Forest St.

29. Thro' the Chelsea Beach salt-marshes in A.M. Saw but few Sharp-tail Finches, and these almost without exception on their breeding-ground near Oak Island. In Oak Island woods were a pair Black-polls and Golden-crowned Kinglets, one Blue Yellow-back and a Red-eyed Vireo. In P.M. over Lynn Beach and around Little Nahant. Saw few birds — one Dunlin (wounded), one Sanderling and three Ercunetes, one Herring Gull.

30. To Mystic Pond via Arlington Heights, and back via Fresh Pond Swamps. Shot two Yellow Redpolls on Marsh St. — one palmarum, one hyperchrysea. 8 or 10 Robins flew over to-night. Robins have been scarce now for a week or so, but this morning I saw on Arlington Heights what I took to be a migratory flock.

Oct.

1. Very pleasant day. To Arlington Heights via Marsh St. in P.M. Shot one Yellow Redpoll — a rather pale bird (palmarum typica). Robins again in same place as yesterday. A few of them sang in a feeble way. On the way back, stopped at the

Dendroica palmarum palmarum in E. Mass.

must Oct. 15, 1878. Brookline. Arthur Smith. Rec. by R. Deane, Bull. N.O.C. IV. 1879, 50, 156.
Sept. 13, 1880. ♀. Cambridge. H. M. Spelman. " " H. M. S. " " " VII. 1882. 54.
Sept. 7, 1881. ♀. Belmont. " " " " " " " " " " "
Sept. 29, 1883. Juv. Belmont. E. R. Lamb. " " E. R. L. Proc. Boston Soc. Nat. Hist. II. 1883, 55.

Sept. 22, 1886. ♂ juv. Concord. W. Brewster. In coll. W. B.
Oct. 15, 1887. ♀. Hyannis. " " " " " "
Sept. 23, 1889. Juv. Truro. J. E. Miller. Rec. by J. L. M., Auk, VII. 1890, 229.
Sept. 24, 1889. Juv. " " " " " " " " " "
Sept. 23, 1890. ♀. Belmont. W. Faxon. In coll. W. B.
Sept. 30, 1890. Juv. " " " " " E. F. Bradbury
Oct. 1, 1890. ♂ " " " " " W. B.

Long Island, N.Y.

Sept. 7, 1885. ♂. Montauk Point. J. Dwight. Rec. by J. D. Auk, V. 1888, 324.
Sept. 23, 1887. ♀. Fire Island. " " W. Hutchins, Auk, V. 1888, 182.
Sept. 21, 1886. ♀. Shelter Island. In coll. W. B.

Rose Hill, Va.

Sept. 17, 1886. ♂. Juv. W. Brewster. In coll. W. B.
Oct. 9 ♂ " " " " "

robin roost. Saw about 60 come in — most of them at about 5.30 o'clock (sunset, 5.26). One bunch of 12 went right by the roost as if ignorant of its locality (northern migrants?). As I came away a Screech Owl began to cry, a Bay-wing song.

2. Thro' the Fresh Pond swamps in Arlt. Yellow-rumps common, also Song & Swamp Sparrows. Few Black-polls. Brewster writes that he has seen 14 Lincoln's Sparrows at Lake Umbagog and 10 White-crowned Sparrows (2 adults & 8 young — one of the latter singing!):

3. Walked from Bedford to Concord with S.F. & C.E.F. A Grebe (?) on Concord River below Carlisle Bridge. One Sphyrapicus.

5. Mild & pleasant, rain yesterday. Up Arlington Heights via Marsh St. in A.M. & back by way of Belmont. Two Dendroica palmarum palmarum (not killed, but sight rec.) in the usual place on Marsh St. The commonest warbler now is the Yellow-rump. There are a few Black-polls too. In the afternoon, while walking up the Fitchburg R.R. to Alewife Brook, I saw a flock (10-12) of Swallows (White-bellied) feeding high up in the air. This was at 3.20 o'clock. In a short time they collected together in a compact flock, ascending thereby to a prodigious height, the number now increasing to upwards of 40 birds. The intricate movements of the birds as they concentrated during their upward flight produced an almost kaleidoscopic effect. They then moved rapidly off to the South by East, at such a height that they could only be seen with the aid of the opera-glasses and the white cumulus clouds that were then floating thro' the sky. As they moved off toward the south the direction of the flock as a whole was [illegible] but apparently the course of an individual bird was not in a bee line. It appeared to me that the

wind, which was then blowing lightly from the N.W. west was an important factor in impelling them towards the sunny South. Shortly after the departure of this flock other to the number of 40 or 50 came upon the ocean and fed up in the air but I did not see them depart. On the way back through "Lower Lynn" I saw probably these same birds about overhead and a few were seen despondently up to 4.20 o'clock.

6. Saw about 12 Yellow Redpolls on Marsh St. this a.m. Shot nine for Mr. B's collection. They are probably all hyperchrysea tho' one is quite pale, approaching palmarum. They keep low down in the Gray Birches in company with Yellow-rumps, sometimes on the ground.

7. Rainy, E. wind. Shot two Yellow Redpolls on Marsh St. — both hyperchrysea. These were the only ones seen. Covey of Quail on other side of the street; the only ones I have seen this fall in spite of the fact that the birds were imported in considerable nos. last spring from Tennessee!

8. Rainy again. To Arlington Heights in P.M. Saw many Yellow-rumps, Black-polls, and one D. palmarum hyperchrysea. Many robins passing over, apparently migrants. Between 5 & 6 o'clock the roost at Beaver Brook was quite populous. The birds seemed to come in thro' the trees instead of by flights.

9. Pleasant. Went to the swamp from Cornelian Pocket to Oak Island. The woodchucks were busily at work except the younger ones along the creek and I stalked feverish like marsh, and in some fine sunshine finished picking up to their green pelisch in cart later for welling. This afternoon saw the hoarse of the sharp-tail Sparrows. Brought home some acorns just as sound as the green quick

indicates the breeding-grounds of these birds in summer, or now the Spartina is the key to their whereabouts. And a veritable jungle it is for the collector! I secured sixteen specimens — one Cardinalis, five A. c. Nelsoni, and ten Ammod. caud. subvirgatus. All but two were shot between the Sangus Br. R.R. and the Sedan Turnpike. The rest, one got from the breeding-ground of Cardinalis proved to be subvirgatus. On Oak Island were found Chickadees, one Catbird, Song Sparrows, Fox-birds, White-throated Sparrows, Black-poll Warblers, Golden-crowned Kinglets. Flock of White-bellied Swallows over the marshes.

10. Large number of Robins again on Arlington Heights & vic., feeding on cedar-berries and privet berries. Also some cedar-birds and Purple Finches. Two Ruby-crowned Kinglets, one Blue-headed Vireo, one Yellow-rumped Warbler, etc.

11. Walked from Lexington to Burlington, then to Bedford (Reid's?) to Billerica, & back to L. via the Lowell Turnpike. Got many Blue-birds, Fox-birds, Field & Chipping Sparrows, two Yellow-Rs, Polls, etc.

12. Cool, pleasant, with fog in the early morning. Crossing Charles River Brook on the Mass. Cent. RR at 5.15 P.M., I saw a Carolina Rail come out into plain view on the edge of the brook, about 10 feet away, where it walked about as if tame or unconcerned, as a species of Rail. Appeared to be feeding on the seeds of a plant growing on the edge of the brook (Polygonum sagittatum?) Continually jerking up its tail & showing its white under tail coverts. At Nelson's Lodge were up picking at scraps and joined two others high up in the elm, but I heard no flinting. Heard the Flicker.

13. Second fall migration again from Franklin Park to Oak Island. The Sharp-tails are not so numerous as they were on the 9th. Of four shot this morning two are Cinnamons (one partially albinistic), one Nelsoni, and

in subvirgatus. Cool, pleasant day, 38° at 7 A.M.

16. To Lynn Beach and Little Nahant in A.M. Three Ipswich Sparrows, many Savannahs, fine Lapps, one Black Scoter (?) etc. In the Fresh Pond Swamps in the P.M. found a Mute Swan (with receding injured ?) a Maryland Yellow-throat, etc.

17. Heavy rain.

19. Heavy N.E. rain. Max. velocity of wind in Boston, 54.0, 7.30 P.M.

20. Another rainy day.

21. To Tyngsborough Park in A.M. Saw only one Sharp-tailed Sparrow (probably subvirgatus) in the marshes. Several shrikes (Borealis ?) and two Pectoral Sandpipers (?). On the way home stopped at the Fresh Pond marshes. Saw a bunch of mean sunge, near the upper end of Little River. Could see clearly all the marks — red eye, white trimmer and tips of secondaries, lobate feet, etc. Turned decided Twilight to the Beaver Brook robin-roost (sunset, 4.53). At 5.00 from nothing flew over continuing up the valley towards Rock Meadow. At 5 o'clock another passed in the same direction. At 5.10 four, at 5.15 three. At this time flew over one also in the old roosting-place, o speaking. I did not make out whether he followed the rest later on. The roosts of blackbirds, crows, and the all the other birds were even disturbed with a great noise during the common flight to the west. The trees in Bird's Wood are recently burned. It looks as if the birds intended to another roost further up the valley. The direction the birds flew straight over the wood as that taken by the bunch of 12 that passed over the roost in the evening of Oct. 1. At 5.26 a Wilson's Snipe got up from the low marshy ground sitting at "scape" rose to a great height, darting about as in Spring and was bleated. The bleating for a duration three

in Spring however. The rest of the whole it uttered only the "Peep". Disappeared in a little while in the direction of Rock Meadows.

22. To the Fresh Pond meadows towards night. Found the Gull in exactly the same spot as yesterday. At 4.45 a Snipe took a protracted high flight over the meadows which I followed complacently with my glasses. No bleating heard — only "scaip". Took it for big birds which looked like Ducks. Note — ti, ti, ti, ti, ti, quickly repeated.

24. Heavy N.E. rain again. The ponds and brooks are now full & overflowing.

26. At Beaver Brook to-night, above the robin roost, I saw but few robins and could not make out any flight in any given direction.

28. From Franklin Park to Oak Island with E.F. One Sharp-tailed Sparrow (sub-sp. indet.). On Oak Island, two Hermit Thrushes, one Fox Sparrow, one Swamp Sparrow, two Winter Wrens, Kinglets (Golden-crowned), etc. Yesterday an intelligent gunner told me that he shot a Butcher-bird in the Fresh Pond Swamps on the 23rd inst. In P.M. to Nahant. Large flocks of Old Squaws and White-winged Scoters, two Shore Larks, three Savanah Sparrows, etc.

29. Rain.

31. In the Fresh Pond swamps early this morning the Tree and Song Sparrows were singing almost as freely as in the Spring. Walked from Bevington to Burlington, thence to Joshua Reed's and thro' the woods to the Lowell Turnpike & back to Bevington with E.F. & B.E.F. Pleasant & warm.

Nov.

3. From Franklin Park to Oak Island in the morning. A careful search revealed but one Sharp-tailed Sparrow (near the breeding-ground by Oak Island). Did not get a shot at him & the subspecies was not

made out. Nothing else in the marshes except multitudes of Crows and a few Herring Gulls. In the afternoon walked from Lynn to Little Nahant. Saw one Ipswich Sparrow, one Savannah Sparrow, a few Snow Buntings together with White-winged Scoters and Old Squaws.

7. Saw the Coot this morning in just the same place as on Oct. 21st. It was perched in a sitting position on a bush, about a foot above the water into which it dropped when it saw me.

10. Warm, pleasant. With E. F. & C. E. F. from Reedville around Ponkapog Pond, thro' the woods by Duck Pond to Houghton's Pond & back to Reedville over the Blue Hill Range to the east of the big hill. One Shrike on the big White Oak on the South side of Ponkapog Pond.

11. Little spitting of snow this morning — the first of the season.

13. A Long-billed Marsh Wren in the cat-tails near the head of Little River in the Fresh Pond swamps. Also two Winter Wrens not far off — one of whom sang once. 28° at 7 A.M. Thin coat of ice in the swamps early in the morning.

16. From Readville to York Pond and back to Canton Junction with E. F. & C. E. F. Near Canton Junction noticed two Oriole's nests in apple trees and two in white oaks and one in elm.

21. 28° at 7 A.M. Thin ice formed in the swamps. Saw the Long-billed Marsh Wren near the same place where I saw him on the 13th. Also one Swamp Sparrow and two Song Sparrows.

24. 18° at 7 A.M.

27. Thanksgiving Day. Cloudy with spitting of snow. Spent day at Jamaica Plain. In A.M. walked up Dedham Turnpike, thro' the Muddy Pond woods to Clarendon Hills.

28. 11° at 7 A.M. Clear, wind N.N.W. Coldest yet.

30. To the Fresh Pond swamps this morning. A small flock of White-winged Crossbills in the Belmont Park. A Long-billed Marsh Wren in the cat-tails on edge of Little Pond. Also a Swamp Sparrow and two Song Sparrows.

Dendroica virens in Mass. in Winter.

F. C. Browne. Bull. N.O.C. VII. Apr. 1882, p. 119. Framingham, Dec. 5, 1881. Four.
" " " " " " " " " " " Jan. 1, 1882. Two.
R. W. Hogg. Jour. Boston Zool. Soc. I. Apr. 1882, pp. 25, 26. (Same as last record.)
W. Brewster. Bull. N.O.C. VIII. Apr. 1883, pp. 120, 121. Duxbury, C. W. Chamberlain, Dec. 27, 1882.

B. Torrey in litt. *Sialia sialis*, Dec. 2/9 (Mr. Holden), 1890, 21, 22, 27, 29. Jan. 3, 30. Feb. 1, 4, 5
T. M. Brewer, Bd., Br. & Rdgw., Hist. N.A. Birds, Ed. Bds. I. 63. Jan. 28, 1869 (near Boston?)
J. Murdoch, Bull. N.O.C., III. 76. Dec. 29, 1877, two, Roxbury.
H. K. Job, " " " " VIII. 149. Jan. 3, 1883, 5 or 6, Sharon.

Spizella pusilla, Dec. 21 (B. Torrey, Hulbert Hill) 1890.
Dec. 5, 1889, Marston's Mills, West Barnstable, Mass. One. W. Brewster.
Jan. 11, 1886 (four), Jan. 26, 1886 (one) } in Hartford, Conn. W. E. Treat, Auk, IV. 259.
Jan. 20-26, 1887 (one.)
Dec. 2, 1875, Hartford, Conn.: Merriam, Rev. Birds Conn., p. 39.
Jan. 31, 1885, Setauket, Suffolk Co. (Long Island), N.Y. Dutcher, Auk, III. 442. One.

2. 1° above zero at 7 A.M.

3. 3.5° above zero at 7 A.M., cloudy. Snow later turning into rain towards eve.

11. To Mystic Pond via Arlington Heights. Saw a large flock of Robins on Wellington Hill with a few Purple Finches. Two flocks of Snowbirds. From 250 to 300 Herring Gulls on the thin ice and in the open places on the upper Mystic Pond. Also a few Dark Ducks.

13. 2° at 7 A.M.

15. Mild and pleasant. Walking down to Cambridge in the morning I found a Pine Warbler on Pleasant St. by the gravel bank. Shot it. ♀ Scarcely a trace of yellow on breast. Probably a young bird. Robins and Purple Finches again near the same place.

882. 21. Found the Long-billed Marsh Wren this morning in the same place where I saw him Nov. 30. Two Flickers, one Swamp Sparrow, about six Song Sparrows, and a Shrike (singing) all in the Fresh Pond Swamps.

24. Flock of 12 Meadow Larks near the Belmont Spring. 6 Purple Finches on Hill St., 2 red, 4 brown.

25. To F.P. Cool, clear, NW wind. No snow on the ground. Walked up to the wood by Pond woods beyond Hagleswood.

26. 9 inches of snow.

28. 3° at 9.30 P.M. Wind NW.

29. 10° at 7 A.M., cloudy. Wind SW. Good many Whistlers in the Back Bay.

30. 0° at 8 A.M. Maximum during the day, 14°. Walked from Cambridge to Waverley in P.M. Saw a Snow Bunting near Fresh Pond. The snow that fell on the 26th has not melted appreciably as yet.

Turdus aonalaschkæ pallasii.

E. Tenn. Dec. 25, 1882. Job. Bull. N.O.C. VIII. 149. (Very cold winter)
St. John, N.B. Jan. 11. 1878. Forest & Stream, X. 6, 95 – H. B. (Mild winter)

1891.

Jan.

1. Light snow in A.M. Found a Saw-whet Owl in the afternoon sitting on a low branch of a tree on the side of the road in Waltham (Beaver St.), and a Winter Wren in the stone wall directly underneath him.
2. Heavy rain.
5. 3 in. snow.
6. Three Robins this morning on Mill St.
10. Noticed a male House Sparrow parading before the female, as in spring.
11. Heavy rain in afternoon and night taking off a good part of the snow. It has been fair sleighing since 26 Dec.
12. Three Robins in the grove near the Convalescent Home, and one Hermit Thrush. C. E. F. reports large flock of Robins in Brookline Jan. 7 and 8.
13. Cold, clear, with west wind, therm. not rising above 22° through the day. Walked from Waverley to Arlington via the Heights and returned via Pleasant St. Flock of upwards 100 Robins on the Heights, some of them singing (in reality a low voice). They feed chiefly on the berries of the privet. Their excrement is black as ink. Another small flock by the Belmont station. Saw 9 Cedar-birds.
15. Pleasant. To Nahant in A.M. Saw one Horbell's Grebe, a good many Old Squaws and White-winged Scoots, Herring Gulls (No Black-backs). No land birds except Crows. Nine Robins by the Convalescent Home in the P. M.
17. This morning in the midst of a snow-storm and with the mercury at 16° a Robin was singing sotto voce near the Convalescent Home. One of the attractions there for both Robins and Chickadees is the open spring water in which they often bathe.

Feb.

5. 1° above zero this morning. Left Waverley this morning. Shall be in Cambridge about a week and then hope to take a winter trip to the mountains.
8. About 6 inches of snow fell to-day.
9. Snow again this afternoon.

Birds seen in neighborhood of Graylock Mt., Feb. 12–22. 1891.

1. Bonasa umbellus. 18. 21.
2. Nauk. 22.
3. Cyanocitta cristata. 13. 14. 16. 17. 18. 19. 22.
4. Corvus americanus. 19. 23.
5. Parus hudsonicus. Nb. Adams vill. & Williamstown
6. Sitta carolinensis. 15.
7. Parus atricapillus. 13.x 14. 15. 19. 20. 21.x 22.x
8. Regulus satrapa. 15.

Feb. 1891.

10. Rain in AM, clearing off toward noon. Walked from Belmont to Waverly and back to Hills Crossing in P.M. Robins, two Red-birds, Snowbirds, one Partridge, and a flock of about 13 Quail in the grove near the Connecticut House, Waverly. My attention was first called to the latter by hearing them call & observing them for some time feeding—myself unseen.

11. In the morning walked from Arlington via the Heights and back to Cambridge via the Fresh Pond Swamps. A flock of about 15 Robins and an equal number of Cedar-birds on the Heights.

12. Pleasant. To the Notch, No. Adams. Snow is 1½ ft. deep in this region.

13. Pleasant.

14. Cold, windy, fair. Thermt not above 10° all day. They say there were lots of Evening Grosbeaks in Williamstown and Adams last winter.

15. 1° above zero early this morning, rapidly growing warmer. Up to top of Greylock. Snow 3 ft. deep on the mountain. Followed a wood-drawer's path to a point above the Bellows-pipe, then over the ridge to turnpike above the first mile-board. Saw two Chickadees, one White-bellied Nuthatch and heard several Golden-crowned Kinglets.

16. Rainy.

17. Rainy, warm, 48°.

18. Rain in A.M., clearing later.

19. Pleasant. Went to Williamstown. Saw a Turkey Buzzard alive in Williamstown, Jan 9, 1891, by Alfred J. Powell. He says it was first seen on the previous day (Jan. 8).

20. Snow.

21. Rain.
22. Snowed intermittently thro' the day. Cold.
23. Pleasant. Returned to Cambridge.
25. Walked from Central Station (Dedham Pk.) to Jamaica Plain in P.M. Warm — heard no Bluebirds tho' they are said to arrive in the neighborhood.
27. Snow (slight fall) last night. Went to Nahant in A.M. Saw no birds but Herring Gulls, Old Squaws, White-winged Scoters, and a large flock of Snow Buntings. It was very windy.

Mar.

1. A little more snow fell last night. Cold winter day.
2. Mercury at zero early this morning.
3. Snow.
4. Heavy snow, heaviest of the season.
5. About 1½ ft. snow on the ground this morn. Took train to Waverley in A.M. Found flock of about 12 Robins near the Convalescent Home. Also saw a Flicker and a few Goldfinches. Pleasant, but windy.
7. While walking thro' Linden St. Waltham, this afternoon I saw a Shrike in pursuit of a small bird near Beaver Brook. At the same time another little bird arose with an unfamiliar cry and alit on a tree near by. It proved to be a European Goldfinch. A number of winters ago I saw a few of these birds on the Mill-dam, Boston.
8. Pleasant. Took the 9 A.M. train to Beaver Brook Station and walked back to Cambridge. Three Partridges, Juncoes, Robins, one Brown Creeper and Kinglets in the grove near the Convalescent Home, Waverley. Above the gravel bank on Pleasant St.

Belmont I found a large flock of Robins (many of them singing in a low voice), many Cedar Birds (perhaps 15 or 20), one or two Flickers, a Blue Jay, Crow, a Downy Woodpecker, and a ♂ & ♀ Bluebird. The ground is covered deep with snow which is now melting rapidly.

10. Walked from Arlington around Mystic Pond, thro' the Linnæa woods, over Arlington Heights, and to Cambridge via the Fresh Pond swamps. Snow very soft & wet from the rain yesterday and last night. Found a flock of five or six Yellow-rumped Warblers in Arlington in the same place where they wintered in 1889-90. Two flocks of Snowbirds, one in Arlington, one in Belmont.

14. Walked from Waverley to East Weymouth this morning. Cold March wind. Flock of over a dozen Snowbirds near the Crematory Home. Saw nine Bluebirds, two Robins and one Song Sparrow. Saw many Crows flying northward.

15. Cold north wind. Walked from Waverley to Roberts' Crossing via Prospect Hill with A. M. S. & F. B. Two Tree Sparrows in Waverley, Robins, Bluebirds, Chickadees, Golden-crowned Kinglet, one Song Sparrow, Brown Creepers (three or four) and a few Crows. One Pewee (in Waverley). Snow mostly gone.

18. Windy day (wind S.W.). Walked from East Weymouth to Mystic Ponds & to Cambridge thro' Fresh Pond meadows with C. E. F. Yellow-rumps (six) in same place as on the 10th inst.

20. Cloudy. To Ipswich in P.M. with G. L. M. Jr. to stay over Sunday at Mudbury's. Saw one Ipswich Sparrow (Shot) in the sand-hills. Evening 100 of Dusky Ducks on the bars.

21. Heavy rain all day, E. wind. F. B. came down in the morning.

22. E. wind, fog and showers in A.M. Pleasant in P.M. Saw but few Black Ducks to-day. Red-winged Blackbirds (12+) a few Horned larks and 4 Ipswich Sparrows. Went over to Hog Island in P.M.

23. Returned to 6. in A.M. In P.M. moved out to Lexington.

24. Cloudy, E. wind. Walked thro' Tophet Swamp via the R.R. and back by Wood St. Frontmany Meadow larks, Bluebirds, Song Sparrows. Two flocks of Snowbirds, one of them very large.

25. Cool with North wind. With C.E.F. to Lincoln and Bedford. Few birds. Saw many Antiopa butterflies and a few Brephos, the first I have seen this spring. Also heard the Rana silvatica for the first time this season. Saw one lizard (larva).

26. Went to the Bush Pond Swamps towards evening to see whether the Snipe were performing. Heard one only more. Wind N., cold.

27. Walked from E. Lexington to Cambridge this morning. Bluebirds and Song Sparrows abundant. Saw two flocks of Rusty Blackbirds — the first I have this season. Some of the Alders are now in full blossom. Wind southerly, warmer.

29. Hyla pickeringii peeps.

30. Rana halecina heard. [illegible] Saw [illegible] 6.30. [illegible] about four accents. Heard from Dusky Ducks — a flock [illegible] by.

31. Took Rose to Hog Island. Red-wing White maple flowers.

1. Saw first chipmunk to-day.
2. Fast Day. Cool. In the morning walked from East Lexington to Arlington, passing back of Turkey Hill.
3. Heavy gale last night with snow in the interior. An inch or two fell in Lexington, turning to rain in the early morning. No snow in Arlington.
5. More Fox Sparrows to-day than I have seen any day this season. Noticed one bush of Pussy Willows with staminate flowers beginning to open. Went up on Davis Hill after supper, arriving there about 6.30. A Woodcock was peeping near the summit when I arrived. He soon made an ascent, when I crouched up and sat down by a dwarf Pitch Pine near the spot where he had been peeping. He came down seven yards from me, while it was so light that I could distinctly see him on the ground. When he is peeping each peep is immediately preceded by a low twitt'l. As the peep is uttered the bill is opened, the head jerked forward & back, and the wings slightly spread. His ascents lasted each from 50-60 seconds, the song proper about 10 seconds (just before his descent). He sprang up always at a very small angle with the ground, against the wind (N W). Generally he described the spiral to the left, but two or three times he turned to the right. He was still at it when I came away at 7.10. I forgot to say that when on the ground, after uttering a few peeps he begins to strut about over a few square feet (still peeping), facing now this way now that. He did 3 times within 7-10 yards, then, it beginning to look dark & see distinctly, I withdrew to more remote ground.
6. The Woodcock on Davis Hill performed to-night from 6.30 to 7 o'clock. Rose against the wind (N.N.) sometimes turning to the right, sometimes to the left. Intervals between the peeps about 3 seconds. 22 to 28 peeps in a series, the performance ending with a series lasting several minutes.

7. Blueford building (C. E. F.).

7. Visited the woodcock on Davis Hill at 4.30 A.M. Found him in the midst of his morning devotions. Again got a position within a few yards of his terrestrial station. He did not strut about quite so much as on the evening of the 5th. Peeped from 20-24 times between the flights. The performance terminated with a flight at 4.45. Had a heavy bird-chorus (chiefly Robins, Song Sparrows and Bluebirds) between 4.45 and 5.00.

W. B. came over in the P. M. & spent the night. Went to see the woodcock after supper. He made his first ascension at 6.30 (sunset, 6.17). Made altogether seven flights, the performance ending with a series of peeps at a few minutes after sunset. 31 peeps in the second series, 21 in the third, 37 in the fourth, 29 in the fifth, 28 in the sixth. One (sometimes two) twittles before each peep. Rose against the wind, sometimes spiralling to the left, sometimes to the right. The circles at the maximum were 2 acres (?). At the height of the flight the twittle becomes more rapid, sharper, and intermittent. The "twitter-whistle" notes come at the end just before the bird descends to the ground. They last for about ten seconds, are alternated with a sharp whistling note, and are emitted while the bird flitters down zigzagging like a Swifter Nighthawk.

8. We visited the woodcock early this A.M. arriving on the ground at 4.25 (sunrise, 5.15). The bird was in the midst of an ascent. — Made seven ascents after we arrived, the last one terminating the performance at 4.50. In the evening the show always ends with a series of peeps, while on both

the mornings I have visited him he scales off on his descent from his last flight and alights in a direct course. R. took a position near his station (which always appears to be in about the same spot) and once startled him when he alit within a few feet. I saw he repeated the feat a great many times before I left. Made but two counts of the peeping spells. 47 and 28. After prospecting around Cornwallville via New Turbo, White St. and the Payson Estate.

9. To Catskill with H. B. In boat nearly down to Catskill Bridge and back to Catskill. Saw one Pewee, two Downy Woodpeckers, three Purple Finches, and one Cowbird on near the Old Manse, later in the day: one Grasshopper Sparrow (not singing), one Hairy Woodpecker, a Screech Owl in hole in Apple-tree, Cooper's Hawk, Sharp-shinned Hawk, Fish Hawk, flock of 22 Wild Geese, 12 Black Ducks, two Whistlers (♂ & ♀), and one male Goosander (M. americanus). All the water birds were a little way above Catskill Bridge. Very pleasant day. Wind N. to E. Saw two Water Bobbins, Tyrannus and small Hydrisens.

10. Went up Dutch Hill at 6.30 P.M. The Woodcock left the cover to which he has always gone after his morning flight at 6.40, & immediately began to peep on his wonted station. His flight from the cover was accompanied by the twitter. Wind northerly, cloudy sky, sunset 6.20. I kneeled behind a rock during the bird's first ascension. He alit 7 feet from me on the rounded moss in a perfectly open space. I could see every shade of color on his body. Inclination of bod, about 45°. I watched once, twice, thrice, four times before each peep

With each flap the bird is thrown backward, the wings slightly extended, the pigeum is triple impetus but not remarkably so. No erection or spread of tail discernible. Frequently shifts his position over an area of a few square feet, facing in different directions, sometimes uttering diminutive knolls. Alit in the same place on his 2d descent. 3d descent further away & I could not see him on the ground. 4th & 5th descents to the original spot, 6th further down the hill & I could not see him on ground. During the next flight I took a position further away, as it was now growing so dark that I could not see him to advantage (6.55 o'clock). Made but one count of the flaps — 8th series, 17. Ninth series, a few flaps and a gossiming flutter. I am confident that I did not disturb him — I was too far away, but a dog was barking. He finally sprang up for his next flight immediately upon a roll of flutter. Made in all 15 ascents! the last at 7.12. After his last ascent he flapped till 7.23. Waiting about 5 minutes after all was still I approached his station and flushed him. He took but a short flight. On being flushed a 2d time he flew up to the north as on previous evenings the performance ceased. In his ascents he always rises up wind, circling to the right or left. The spiral at first covers several acres, diminishing as the bird reaches his

maximum height. Then on one occasion, I distinctly saw him reverse his course, making a sigmoid curve instead of a circle.

11. Went to Hahant in the afternoon. Weather cloudy with light rain. A good many water-birds off Little Nahant Bar at least five Horned Grebes, two Loons, three Black Guillemots, together with White-winged Scoters and small flock of Bufflehead. Two Savannah Sparrows singing on Lynn Beach. Stopped in the Fresh Pond Thrush in the evening on the way back to Lynnfield. Did not hear or see any Snipe. Two or three Swamp Sparrows singing. Two Night Herons.

12. Woodcock began to-night at 6.30, first peeping-spell lasted 5 minutes, made seven circuits, last peeping-spell terminated at 7.10 when he immediately flew off to the Northward. The vocal frogs now are Hyla pickeringii and Rana sylvatica. Heard the Leopard Frog for the second time day before yesterday. When the Woodcock is peeping the bill is declined thus:—

Mossy-bee to-day on the pussy-willow flowers.

12. Went down the Woodcock before breakfast this morning. Found him singing at 4.17. W. B. discovered a Meeting-bee at Pay-son Park on the 5th. Went there with him this A.M. & found the bird, ob. away for a minute or two in rather a low voice, imitating the song of the Purple Finch and "an-

13. Toads trill.

14. Thru Hermit Thrushes sing till Bluebirds (CEF.).

tunnel nest of Bluebird. The Woodcock, I forgot to say, went to the same cover as on the two other mornings. One Field Sparrow and Kingfisher this A.M. Temp. 61°, wind West.

N. B. came over in P.M. Woodcock began to peep at 7.45. First spell lasted nine minutes, made six ascents, finally flying off to the North. Son as usual up the wind (S.W.). I stood off & watched his flight. Starts up on a pretty straight course, then swings around in a great spiral, after reaching his maximum altitude he flies about in an irregular course. The water-whistle notes come just before his descent to the ground and are accompanied by fluttering set wings. The altitude of this bird's flution is 320 feet above the sea, in a pretty bare pasture. It is remarkable that he never leaves any appreciable to betray his stamping-ground.

Went to Lexbridge with B. to spend the night.

14. To Payson Park between 5 & 6 o'clock this morning. Saw or heard nothing of the Mockingbird. Took fifteen Yellow Redpoll Warblers, a pair of Sparrow-hawks, and a pair of Wood Ducks. The latter alit in the small artificial pond on the Lower. We crept into the clump of arbor-vitae not far from the pond, whence we could observe the Ducks to great advantage. They appeared very skittish, spending much time at rest on the stone coping that borders the pond. Warmest day yet, 77° in the shade at noon. Alder & Aspen fl.

15. Walked from E. Lexington to Belmont in the morning. Chipping Sparrow, Pine Warbler, Ruby-crowned Wren arr. Colder with northerly wind. Our Purple Martin arrived yesterday. First saw him at 5.30 P.M. He got along pleasantly with the House Sparrows that are in possession of the box, sitting on the piazza of the house surrounded by them. The harbor

17. Grapta j-album ap. Chrysosplenium fl. Mussel-car fl.

18. "Black Flies" ap. Cicindela vulgaris ap. Forsythia fl.
Virginia Rail (one), Carolina Rail (?) "Inch" W Brewster

19. Cicindela sexguttata ap. large heavy Bison in flower.

20. Sassafras and Cassandra fl. Bluebird at Waverley (F.B.).

21. Lemna trisulca, Taraxacum Dens-leonis fl. Chionanthus (one).
Chimaphila maculata ripen seeds. Houstonia caerulea fl.
Betula lenta fl. Robin's nest building (F.B.)

here thro' to-day. To Davis Hill in the evening. Raining. The Woodcock did not appear.

16. A second male Purple Martin appeared to-day. Went up Davis Hill after supper. No Woodcock.

17. Three male Martins to-day. Cleared the top of the Sparrow's nests in the morning. Walked with C. E. F. from Lexington to Waltham via Thos. Parker's Tree. An Solitary Vireo, flock of Yellow-rumped Warblers, etc. Sixteen Blue-birds! Is it the migration get over? Got supper at Waltham & then took the train to Hill's Crossing. Saw about five Wilson Snipes. Only one drummed and then at a long distance from us. Saw one Potentilla canadensis in flower.

18. Walked from Dover to Wellesley via Pegan Hill with F. B. Vaughan, S. wind. Pair of Sparrow Hawks on Pegan Hill. Night on the summit of the small Pitch Pines in the field and then over the ground for insects. When I arrived at Lexington in P. M. found that two female martins had arrived. There were two females in the box at 6½ o'clock. The Red Maples & Elms are moving flower. Thunder-shower in the evening.

19. Another very warm, beautiful day. Walked from Lexington to Burlington with C. E. F. — Took at North Lexington.

20. Cool, wind N.W., W., and S. A Brown Thrush singing on Marsh St., Belmont. Flock of 20 Cedar-birds on the same tree (or same number) as on Mar. 31 — Belmont.

21. Second Hyptis Pisci Hill morning. A male Black-throated Green Warbler singing in the Lincoln woods. Over Davis Hill in evening. No Woodcock. An Osprey on the 6th of

21. Saw a handsome albinistic Robin in Arlington this AM. The white feathers were mostly on back & wings.

22. Caltha palustris, Viola sagittata, V. blanda, Anemone nemorosa, A. thalictroides, Equisetum arvense, Arr barbatum, A. platanoides, Sanguinaria canadense fl. Pinus rapāc(e). Cherry fl. in Cambridge (W.B.), & in J. P. (C.E.F.).

23. Erythronium amer. fl. Bronzed Grackles actively building (B.B.) & Chimney Swifts in Cambridge (W.B.)

25. Petrochelidon lunifrons, Clivicola riparia, Coccothr. W. Brewster.

26. Vaccinium pennsylvanicum & Amelanchier Sepin to flower. Salix rostrata in fl. Hirundines trip off.

27. Ranunculus fascicularis in fl. Hoularia fl.
28. Dendroica aestiva (one, Rock Hud.), Helminthophila ruficap. (one, E. Lex.).
29. Plum & Peach trees in fl.

a tall oak in Bow Lane, in the moonlight. Flew off with a cry as approached him. The Alewives are now running at Mystic; seined them some a week ago. Warm, beautiful day

22. The warm pleasant weather still continues. Walked from E. Lexington to Belmont in aft. Mr. Blake & White Creeper singing in Willington Lane. In evening to Nonquit woodcock above Reatville with C. E. F. Two Bittern pumping and a Whippoorwill singing. The season is now in advance of the average year at this time. 76° this aft.

23. 76° again to-day. A Great Flycatcher singing in the yard this morning. Heard two Sora Rails (?) "cuttuck" in the Fresh Pond marshes and one Va. Rail. Also a "cuttuck" in Arlington near the graveyard. Two Redstarts singing in Pleasant St., Belmont

24. Cooler, 42° this aft. rising to 58°, wind E. & N by W. Walked over the salt marshes from Franklin Park to Neponset in morning. Saw many Savannah Sparrows, but no Sharp-tails. The Martins have been absent almost all day — one or two about the box early this morning and again towards night.

25. Cold with spitting of snow, therm. 35° early A.M., rising to 43° during the day. One pair of Martins there this day.

26. 34° early this morning, wind N W, pleasant. Sig Martins again this morning. Up the Lincoln road with C. E. F. & H. M. F., & across to the Concord road & back to Hey. Very few birds — apparently the cold storm has driven them away.

27. 77°.

29. 33° at 5 A.M., 40° at 8 A.M. Wind N W. One Vireo gilvus in E. Lex.

30. Warmer. To Winchester Hill, walking back. Frogs from

30. Viola pedata, Coptis trifolia fl. Polygala paucifolia fl. (S.F.)

1 Viola pubescens in fl. at Wrewell.
White Willow fl. Bumble-bee ap.

2. Cherry-trees in full flower. Chrysothamnus americanus ap.
Pinus japonica fl.

11. Erythronium grande fl. Sisyrinchium montanum (M. Brewster).
Geranium pusillum fl.
Pear-trees fl.

1891.

April

Waltham in P.M. In Maylend saw Sand Martins, two or three Cliff Swallows.

May.

1. Cool, with East wind. A Pewee has a nest under the RR bridge just above Belmont station. This morning as I was passing a train passed under the bridge & the bird did not move from her nest! The Yellow Violets are now in flower in Waverley. A Hummingbird (May) annual time visited a Pinus japonica near the house, to-day. Earthquake shock at 7.05 P.M., shaking the house to the foundation. Lasted 4 or 5 seconds.

2. To Fresh Pond Swampsin evening. No birds. Va. & Carolina Rails (sic & cut-tak).

3. Rain in P.M.

4. 34° at 5 A.M. An Oriole (Jamaica Plain) in P.M. Saw some fruit hawks there yesterday morning.

5. 33° at 4.20 A.M. rising during day to 52°.

6. The cold weather continues with wind S to NW. The Hen-hawks are evidently very susceptible to the cold. They do not leave the box (where they sleep) till towards six o'clock in the morning, & they then spend most of their time sitting on the piazza on the east side of the box in the sun — very silent. There were none there this morning (= 8.45). Yesterday morning I saw about 3 pairs on the box on Hancock St. beyond the old Hancock House. A male Hummingbird now spends much of his time among the flowers of a Pinus japonica near the house. He clearly leaves from the flowers while on the wing. In P.M. walked

8. Immunity of Toad (W. Tisbury)

List of Birds seen on Martha's Vineyard (mostly about W. Tisbury, May 8–13, 1891.

1. Colin 8. 9. 10. 12.
2. Mimus 8x. 9. 10. 11x. 12x.
3. Galeoscoptes 11x. 12x.
4. Harporhynchus 9x. 10x. 11x. 12x.
5. Parus atricap. 9x. 10x. 11x. 12x.
6. Melospiza fasciata 8x. 9x. 10x. 11x. 12x.
7. Spizella arvalis 8. 9x. 10x. 11x. 12x.
8. " pusilla 9x. 10x. 11x. 12x.
9. Poecetes 9x. 10x. 11x. 12x.
10. Euphonemus 9x. 10x. 11x. 12x.
11. Passer (Vineyard Haven & W. Tisbury). 6–8
12. Spinus tristis 9x. 10. 11. 12.
13. Ammodramus savannarum 10x. 11x.
14. Motacilla 9x. 10x. 11x. 12x.
15. Dendroica aestiva 9x. 10x. 11x. 12x.
16. " virens 9x. 10x. 11x. 12x.
17. " discolor 9x. 10x. 11x.
18. Sturnus vulgaris 9x. 10x. 11. 12x.
19. Compsothlypis 8. 9x. 10x. 11x. 12.
20. Setophaga 10x. 11x. 12x.
21. Chelidon 9. 10. 11.
22. Tachycineta 9. 10. 11.
23. Chiroka 10. (Chilmark Pond)
24. Petrochelidon 10. " "
25. Progne? 9.
26. Trochilus 12.
27. Chaetura 10. 11. 12.
28. Corvus 8. 9. 10. 11. 12.
29. Cyanocitta 9. 10. 11. 12.
30. Ageleaus 9x. 10x. 11x. 12x.
31. Quiscalus (aeneus?) 9. 10. 11. 12.
32. Sturnella 8x. 9x. 10x. 11x. 12x.
33. Molothrus 9x.
34. Pipilo 9x. 10x. 11x. 12x.
35. Tyrannus 10. 12.
36. Colaptes 9. 10x. 11x. 12.
37. Dryobates pubescens 10. 11. 12.
38. Ceryle 10. 11. 12.
39. Synphemelus 9. 10. 12.
40. Bonasa 9. 12.
41. Accipiter velox 11. 12. 13.
42. Circus 8. 9. 10. 12.
43. Megascops 12.
44. Asio wilsonianus 10. 11.

across the salt marshes from Franklin Park to Clark Island. Saw but one Savannah Sparrow and two Meadow Larks! The Sharp-tailed Finches. The cold weather is keeping all the migrants back. Did not see one bird in Oak Island, and yet it is the 8th of May!

8. To West Tisbury, Martha's Vineyard with W.B. Patten at Mrs. Adams's. Birds seen from the steamer on Buzzard's Bay and Vineyard Sound: Uria lomvia?, 1; Aechmophorus occidentalis, 8; O. americana, 5; Somateria mollissima, 20±; S. stellata, 6.

9. Warm and hazy. B. returned to Boston early this A.M. on account of a raging tooth. In the morning went two miles or so to the Westward and explored the oak woods. Flushed two birds that appeared to be Ruffed Grouse altho' I did not get an absolute identification. Brown Thrashers and Towhees are exceedingly abundant and generally distributed. Saw about 4 Prairie Warblers in the oak scrub, 9 Parulas, and one Yellow Warbler. Field Sparrow with very curious song, hardly recognizable. The pip (chat) appeared to be normal. The Brown Blackbirds, which are common here, look like females, altho' I do not know. In the afternoon I went down the Edgartown road about a mile turning into a cart-road through the "Plain" just beyond Scott's House. The country here is undulating, a series of rounded ridges, divided by valleys. The vegetation consists of Scrub Chinquapin oak about knee high with Bush Sweet Fern etc. The growth is rather sparse in spots, leaving interspaces covered only with herbage. In some places dead oaks of a larger size

45. Botaurus lentig. 2. 11.
46. Nycticorax nævius 9. 10. 11.
47. Actitis 10. 11. 12.
48. Totanus melanoleucus 10 (Chilmark Pond)
49. Aegialitis melodus 10 (Lost store, Chilmark)
50. Larus smithsonianus 8. 10. 11. 40+ (Menemsha)
51. " atricilla 8 (Vineyard Haven)
52. Geothlypis trichas 9. 11. 12.

10. Bobolinks in Rock Meadow, Belmont (M.B.)

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(10-20 ft. high). These are dead from the fires that passed over this whole region. The sandy soil is covered by a growth of Arctostaphylos (now in blossom), low Blueberry, Epigaea, Gaultheria and a coarse grass. The Epigaea is still in blossom to some degree. Such is the character of the country as far as the eye can reach — a blasted heath. In this "brush" the dry "chaf", which went with me fast up to Scarth Sters (pronounced Sitten by the natives) within a small distance of the mouth. They spring from the brush, with a whirring as do as to clear its top and fly rather low, up the slopes and out sight on the other side. The flight is undulatory consisting of alternate spells of flapping the wings and scaling. The bird has the appearance of great inertia, and makes a pretty rapid progress. The wings are long for a Gallinaceous bird. Black-throated Green warbler singing in the Pitch Pine plantation on the offshore side of the road. At Chignecto in the village have a peculiar song — three trills separated by an interval strike trium ending up with the normal song.

10. Another warm day. Drove to Scott's between 4 & 5 o'clock AM & heard about five Heathstein within within a half a square mile. At varying but rather long intervals they called cuk-cuk-cuk-cuk-cuk- cäk? cäk! The cuks resembling a Gallinule, the cäk's on a high key with rising inflection. Their footprints in the sandy cart-path look like

Record written [illegible] the sorting of the Blackcock, at the time of each grouse recording, at any week. It is only with the completion of it, after I got home, I have lit[illegible] [illegible] and [illegible] of it.

11. Two hours drumming over Rock Meadow this eve. (ft. Bolles).

May 1891.

shrub of a hen. The dung is yellowish green, rather dry, on breaking open discloses bits of a chestnut color (acorn shells?). Dung not stained as dark & white as perhaps dogfish's. The Chickadees (all but one heard yesterday wh had normal song) sing to o (both notes on same key). Visited the Heath Hen breeding office after breakfast. Saw Tuesday on horse feet up our Heath Hen near the coast-path. After dinner to Chilmark Pond & beach. Saw Yellowlegs, Semi-Black Eagles, Spotted Sandpipers, four Night Herons, White-bellied, Bank & two Sand & Cliff Swallows. Heard a Piping Plover on the beach. Savannah Sparrows abound on the marshes. Dog killed an Arvicola riparius wh. appeared normal color.

Tuesday 11. Pleasant. Drove to Great Tisbury Pond and Beach, then across to upper end of Chilmark Pond & back to Village. Went into Pitch Pine grove on left of the South road (going from W. Tisbury) an old resort & feeding-place of the Night Herons. Many old nests in the pines & found one fresh brown egg under the trees. Heard the pattern of a Blue Jay. Met a Mr. Norris here. He had collected 5 freshly hatched Screech Owls eggs, just laid. P.M. To pitch pine grove near head of Deep Bottom Cove, back thro' the oak woods to Scott's. Neither saw nor heard a Heath Hen. B. returned in the evening.

13. Melospiza lincolnii (new) in Cambridge (W.T.B.).

May 1891.

12. To the Heath Hen ground before breakfast with B. Started up three Heath Hens in the path. The nearest was about 30 yds from us when it rose. Saw dusting-places in the path on the 9th. After breakfast went a mile or so & he showed them the oak woods. Found two pairs of bridges & heard the cock of one third. Found their dusting-places and feathers where they drew, with a few characteristic feathers. Large accumulations of dung at the roosting stations. No Heath Hens seen. Red Breasted Nut. in both in Red Oak with one young and some eggs. The Crossbill blue in Cones. Chipped up & one nest with eggs. The Chickadees with the abnormal orange (see above) have an unusual amount of white on the side of head and the white is clearer than in the normal form but Brewster finds them matched by an occasional specimen from Middle Bay &c. Their trills are long. Out of 11 heard singing on their trills to 3 or 4 being the normal song. In PM found Green Blue Bird's nest in Pitch Pine in the cemetery with 5 eggs. Nest 10 or 12 feet from ground. After supper to Heath Hen ground again. Saw Heard nothing of them. Moonlight cold evening, snowing in afternoon.

13. Returned home. Saw a few Black & many white winged Scoters from the boat in Buzzards Bay. Mr Morris who returned to Boston on same train yesterday & Mr Pillsbury Dibble on the Vineyard

14. Apple-trees in full blossom.

16. Lilac fl.

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build low in the swamps with the Red-winged Blackbirds. He sings the Red-shouldered Thrush, we see it.

14. Warm, pleasant. Walked from E. Lexg. Otheumnut in A.M. Cape May Warbler singing in the elms on Miss Dana's place in E. Lexg. Song something like Black-poll's, but shorter, with crescendo & diminuendo of the latter. One White-crowned Sparrow (E. Lexg.) feeding on horse-dung in road, three Black-throated Blues, one Scarlet Tanager, one Rose-breasted Grosb., etc. One Wilson's Black-cap in flowering Oak in E. Lexg.

15. A.M. Walked from E. Lexg. to Belmont & from Pond meadows. There are now six pairs of Purple Martins in Belmont & they are busy building. They go for their materials (straws &c) to a field of flowered grass beyond Mr. Glover's to the E. The female does all the work, but is invariably closely accompanied by the male on each flight for gathering material (he also follows her). Some filtering of their nest by another bird or birds they are busy.

16. Rainy. Walked from E. Lexg. to Mill's & Pond in Arlm. On E. side of lower pond two Black-throated Warblers, one Bay-breasted Warbler (the latter in Betula papyracea). Large flight of birds today. Two Blackpoll Warblers and several unidentified birds — the first of the season.

17. Cold, northerly wind. Very few birds seen.

18. Cold, with some rain in A.M. Grass warmer towards night.

21. Martins carry green leaves into the box for nest-lining. Have seen the ♂ light on pear-tree and pull of the leaf with his bill

23. Empidonax traillii (18) shot, Concord (N.B.).
" flaviventris, one " "

May 1891.

19. 36° at 5.30 A.M. Spent the day in the Longwood Marshes with W.B. Nowell across them from Franklin Park to Oak Island and Crescent Beach. Found no Ammod. savannarum but found about six St. candacutus near their breeding-ground near Oak Island. Got two for sure identification. Forty or more Tit-larks on the marshes. Got two, both of them in nearly the same plumage as in autumn. Vast number of Least Sandpipers (estimated at 400) & swept with them a few Ipswichs. A Duck Hawk (Falco Borealis) swooped upon them but did not catch any. About half a dozen White Yellow-legs. E.T. writes from Franconia of a Sapsucker drumming on an iron dipper nailed on Sugar Maple tree.

21. To Purgatory branch with C.E.T. Saw or heard nothing of the Trill's Flycatcher, Huston's Sparrow, or Canada Warbler. The migration seems to be about over, but the bulk of the Shorebirds are yet to come. Found a Tree-bird's egg in a last-year's Vireo's nest! Rather stormy & windy.

23. To Mr G—'s, Swampscott to spend Sunday (to-morrow). In the afternoon E. took me to two or three Yellow-breasted Chat localities, heard two (in two places), saw one.

24. Pleasant. Visited more Chat localities, hearing four in four different localities — saw but one. They are very shy. Found a Tennessee Warbler (singing furiously) in a low wet spot in the woods. Also one Olive-sided Flycatcher. Black-billed Cuckoo's

25. Chimney Swifts collecting twigs for nests. Two Martins in ♀ does at the old bird-house in the back yard. Am oings like the ♂! Attack one of the sparrows in this box & take possession of one of the rooms. The Martin pounces upon the Sparrow driving it off the box, after a momentary struggle in the air the Sparrow flies to Spruce tree & Martin to box. This is the only case of a contest between Martin & Sparrow that I have ever seen. After a few contests of this sort the Martins remain in peaceable possession, sleeping in box at night.

June 9. These Martins are a pair — the ♂ in immature plumage. ~~[illegible]~~ pair (the ♂ in immature plumage) took possession of the SW corner room (lower story) of Hunt's box later. They were building June 7.

30. Young Bluebirds & Song Sparrows fledged & out of nest.

nest with four eggs — one large and lighter-colored than the rest! The large egg was perfectly fresh, of the three smaller ones one was nearly ready to hatch, one with embryo just forming, one intermediate between the other two. The large egg looked yellow-bilt! The bird was identified on the nest.

26. Walked from Franklin Park to Oak Island in morning. No Sharp-tails seen except on the Oak Island breeding-ground (fresh droppings, landacutus, but dove were shot). Savannah Sparrow's nest with four eggs, on the ground, concealed by overhanging dead grass, on edge of a ditch. a few Winter Yellowlegs & quite a no. of Hoarse Sandpipers on the marshes.

27. From Lexington to Waltham & return in A.M. & male Mourning Warbler on roadside on Lake St. Waltham (not singing). The Bluebirds are now in full song (preparing for second brood?).

28. Shot an Empidonax flaviventris (♂) in Tophet Swamp this morning (uttering the fee note). Good many Nashville Warblers in the Swamp. In P.M. to Shaker's Glen, Woburn. Good Whippoorwill ground on boundary of Lex. & Woburn.

29. Rain.

30. Walked from Concord to Wayland. One Henslow's Sparrow, two Yellow-winged Sparrows, one Crested Flycatcher & one Orchard Oriole in 2d year plumage singing in apple-trees near the Cliff Swallow House. Song much like Fox Sparrow's.

31. To Fresh Pond Swamps in A.M. A Yellow-breasted Chat in the scrub near Little River, Lowell R.R. Also a Traill's

Among the notes of the Chat, imitation of two notes of the Robin, together with Veery's, Chewink's and Quail's (?) is evident. The Robin is indistinguishable from the original. In any one spell of singing he seems to the Chat imitation frequently.

The "Cowbird's egg" was without doubt the sixth egg of the Bobolink, differently marked from the rest of the clutch!

May

Flycatcher in same place singing. Heard no Gallinule, but B. reports having heard two there lately.

June

1. Searched for the Chats nest in the Fresh Pond marshes this A.M. but without success. Saw two birds undoubtedly a pair breeding there.

2. Hottest day of the season thus far — 86° F. Heavy thunder-showers in afternoon. Robins began singing at 3.10 A.M. Cocks crow, again minutes later; Song Sparrow sings 3.20; then Summer Yellowbird, Chipper & Least Flycatcher; the first Martin (♂) comes out of box at 3.40 (left box 3.45); Bluebird sings, 3.50; English Sparrow chirps, 3.55; Robin chorus about over at 5. Purple Finch sings, 4.05 Yellow-throated Vireo, 4.00; Warbling Vireo & Wood Pewee, 4.05. Sparrow, 4.10, clear.

3. A Blackburnian Warbler singing in White Birch near Hancock & Burlington Sts. Canadian Warbler beyond in wood-turned towards turnpike.

4 Found a Bobolink's nest with five eggs in field back of the house. Found by seeing the ♀ fly down into it.

5. Blackburnian and Canadian Warblers — seen first on the 3d. A cowbird's egg in the Bobolink's nest. Removed it.

see opp.

Called at Mr. Williams's in the evening. He has seen Henslow's Sparrow again taken in Spot Meadow, not of the two-winged Sparrow, and mentions a ♂ Hummingbird with nest and two young in nest. They are all of one family — taken in September, he says. Both ♂ & ♀ sing about the nest, the ♂ less frequently than the ♀.

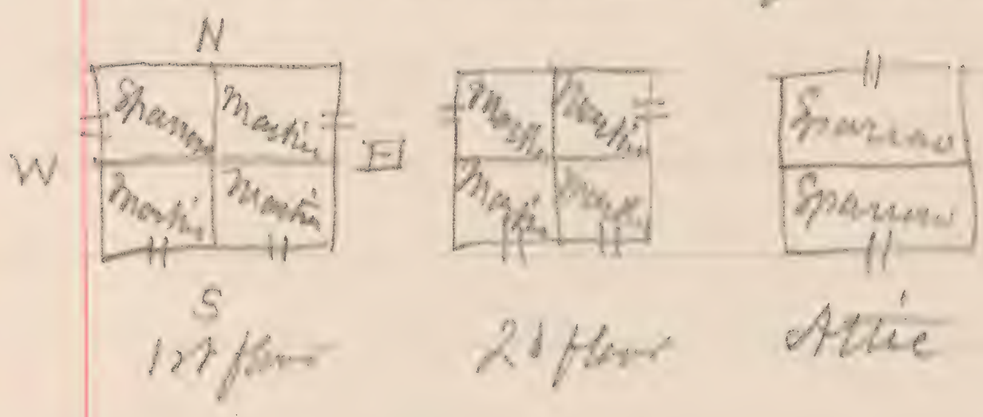
Some of the late frosts in May killed the leaves on lower half of Chestnuts, White Oaks, and Bur-

June 7 Hidden again near Junco in Melrose.

These Hermit Thrushes were in the same place by P.T. & R.T.
July 21, 1891.

forward.

6. Olive-sided Flycatcher singing at E. end of the Smith Lodge, Belmont.
B. T. writes that Mr. Holden saw a Snowbird in Auburn May 23 & 27 — in the same place.
The Purple Martins & Sparrows in Hunt's box are distributed as follows:—



The sparrows have young well grown, & I think the Martins also have young now.

7 rooms, Martins; 3 rooms, Sparrows.

8. To Wayland in P. the Forms the rest of the pair of Orchard Orioles, in apple-tree near the house & captured young birds.
E. F. writes that the one June 4th two birds that must have been Horned Larks in an old field on Mear's Farm, Francestown, N.H.

9. The fire-flies are now in the meadows.

10. A Hummingbird, whose nest must be near, comes constantly to Weigelia bushes under my windows. Has a high note & a rattling squeak. To-day another (probably his mate) came twice & angrily (?) pursued him. He does not feed at all on these flowers & is seldom seen, tho' he was at the Pines performing often in early May. Heard a Whippoorwill there one in Tree fort beyond Bedford Hill.

11. 89°, wind S.W. To Purgatory hemlocks with C.E.F. Two Hermit's Thrushes singing not far from one another in Purgatory Brook Meadow, Norwood. Two & three Canada Warblers and Parulas. No Towhees. Flycatcher.

12. One Baltimore Oriole singing in the robin nest.

June 1891

12. Walked from Waverley to Weyington & then surveyed visiting the Beaver Brook Robin roost. A good many robins went into the roost about sunset — all (as far as I could see) adult males. Altho' some of the 1st brood Robins are now fledged I saw none at the roost & I now believe that the old males go to the roost in advance of the young. The birds were singing vociferously.

13. Took a skiff and went over the Great Meadow, East Weyington this morning. Found it to be the home of a great many Red-billed Teals. Saw one with two young lately hatched and another solitary one. The latter showed his distinguishing quantities. The female with the young ones dived like a coot (i.e. with the same motion of the head). Note — cuk, cuk, cuk, cuk, cuk, cuk, cow, cow, cow, was heard a Fla. Gallinule trying to bring bitter a Cuckoo. The Teals seemed to be distributed over the whole meadows, wh. is really a therefore good proof as to Bittern hunting. The 5 Robins in Weyington appear to be going off to the SW (to Beaver Brook?) to roost towards dusk.

[illegible] has greatly assisted to check the practice of playing for high stakes.

AN ACTOR'S FUNERAL.

Charles Fisher at Rest in Woodlawn—A Notable List of Pall Bearers.

NEW YORK, June 14.—The funeral of Charles Fisher, the veteran actor, took place today from the Church of the Transfiguration. The pall bearers were Joseph Jefferson, Maurice Barrymore, D. H. Harkins, William Winter, J. H. Stoddard and C. W. Couldock. Quite a number of theatrical people attended the funeral services, and Mrs. George Gould sent a beautiful bouquet of flowers. The remains were buried in Woodlawn Cemetery.

GIFTS TO JOHNS HOPKINS UNIVERSITY.

PARIS, June 14.—The sons of M. Laboulaye, at the request of President Gilman, will present to the Johns Hopkins University the library and manuscripts of their father's lectures at the College of France.

An engraved portrait of Laboulaye, highly esteemed by the family, will accompany the gift.

[illegible] to Great Meadow in P.M. Heard three or four Red-[illegible]

[illegible] wind W. Walked all around Great Meadow [illegible] a Teal from the shore at fairly near range. [illegible] into the open one in front of the [illegible] over the surface of the water. The notes [illegible] sometimes varied to cuk-cuk-cuk, cow, cow [illegible] cuk-cuk-cuk, cow, cuk-cow, cuk-cow. [illegible] Kingbirds = singing of Red-winged Blackbirds, [illegible] of sparrows, a few Virginia and Carolina Rails. Green [illegible] See June 19.

16. 95°, wind W. Three of the Bobolinks' eggs hatched to-day. There is an old Man [illegible] (8 in number flying) about the boy in back yard. This makes 3

12. One Baltimore oriole singing in the robin-roost.

Boston Post, Monday, June 15, 1891

From information given at the signal service bureau it appears that the recent hot weather is extraordinary so early in June. The maximum normal temperature for June is from 71° starting from the first of the month and rising to 82½° at the end of the month

Since the 8th of June this year the maximun temperatere has been 80°. On Monday last it was 83°, on Tuesday 84°, Wednesday 85°, Thursday, 89° Friday 84°, Saturday 82°, Sunday 88°.

A comparison of weeks for years back does not show so high a temperature, and with the exception of the year 1888, when on the memorable 23rd of June the thermometer rose to 96°, no such maximum temperature has been found throughout the entire month. Taking the last five years, the maximum temperature attained through the month was 87° in 1890, 87° in 1889, 96° in 1888, 88° in 1887, 82° in 1886.

The prospects are that the heat will continue for the next three or four days. It will certainly be hotter today.

The farmers are praying for rain, the rainfall for the last six weeks having been phenomenally small. The truck farms in the vicinity of Boston are suffering badly, rain being badly needed to start the freshly planted squash plants and all the green stuff is looking drooped. The rainfall for May was but 1½ inches and up to the present date but ½ inch more has fallen, making 2 inches for six weeks, which is only one-third of the normal fall. There is no immediate prospect of rain, the only depression being a slight one in the West.

June 1891

12. Walked from Waverley to Keyes'ton after supper, visiting the Beaver Brook Robin roost. A good many robins went into the roost about sunset — all (as far as I could see) adult males. Altho' some of the 1st brood Robins are now fledged I saw none at the roost & I now believe that the old males go to the roost in advance of the young. The birds were singing vociferously.

13. Took a skiff and went over the Great Meadow, East Keyes'ton this morning. Found it lower than usual & great many Pied-billed Grebes. Saw one with two young lately hatched and another solitary one. The latter showed his diving proclivities. The female with the young ones dived like a coot (i.e. with the same motions of the head). Note — cuk, cuk, cuk, cuk, cuk, cow, cow, cow, cow, was more a Fla. Gallinule trying to sing like a Cuckoo. The Grebes seemed to be distributed over the whole meadow, wh. is rather a shallow pond grown up to Bottom-bushes. The Robins in Keyes'ton appear to be going off to the SW (to Beaver Brook?) to roost towards dusk.

14. Hot. Went down to Great Meadow in P.M. Heard thunder from Pied-billed Grebes.

15. Hottest yet, 94°, wind W. Walked all around Great Meadow in A.M. Watched a Grebe from the shore at fairly near range. Two others came out into the open one in pursuit of the other, both flapping over the surface of the water. The notes on opening above sometimes varied to cuk-cuk-cuk, cow, cow, cow, cow, cow, cow or cuk-cuk-cuk, cow, cuk-cow, cuk-cow.
The meadow also harbors a surprising of Red-winged Blackbirds, some Swamp Sparrows, a few Virginia and Carolina Rails, Green & Night Herons. See June 19.

16. 95°, wind W. Three of the Bobolinks' eggs hatched to-day. There is an old Man Fin (Fin-mumpter Fleming) about the boy in back yard. This makes 3

made in that storm

17. Wind shifts to NE, mercury dropping to 53° at 7 P.M.! drizzling rain in P.M. Walked from Lexington to Cambridge in morning via Belmont Spring & Fresh Pond Swamps. Yellow-winged Sparrow singing near Cotton's. Dropped in upon the Chats. Saw one with food in mouth, no singing. Golden-winged Warbler beyond Cotton's.

18. NE rain, temp. 50°.

19. NE wind continues with light rain. Went out into the Great Meadow in morning. Saw five Pied-billed Grebes — four in a bunch, one solitary. Heard eight or ten. Also saw two Bittern & a Black Duck.

In the afternoon walked up to the grove near the Hancock St. school-house. Saw or heard nothing of the Blackburnian Warbler or Solitary Vireo. Then my attention was attracted by a female Hummingbird buzzing about a Golden-crowned Thrush which had a nest nearby. The H. soon went to its nest nearby and settled in it. The nest is in a rather slender White Oak in the midst of the wood, on a horizontal limb about 22 ft. from the ground and two feet from the trunk. It is directly under a spray of foliage that forms an umbrella for it. —

Unfortunately the nest is not accessible without endangering the occupant. I judge the bird is incubating, as I saw no feeding of the young. While I watched the nest at a distance the occupant constantly moving her head from side to side as if on the watch for danger. When I stood very near the tree she left up a gentle sidewise motion of the whole body which I took to be a nervous manifestation. Several times when

left the nest, flying to neighboring tree, but soon returning. I saw no male bird.

20. To Great Meadow with B.T. Saw about 7 Grebes & heard perhaps 12. 6 or more Ducks — looked the sky and land for quick wing-strokes of Black Ducks but saw only two White below. Were they wood Ducks?

In P.M. we went to Holbrook to see the male Snowbird feeding the young Chippies. V. Torrey's letter. Mr. Holden thinks saw them in the nest on the 17th. To-day they were all (three) out and the Snowbird fed two of them. I think there were two adult Chippies about (& feeding the young) too. The young look like young Chippies. But we observed natural robbed tail-feathers!

21. To Holbrook again with B.T. The young Chippies were in tall fences adjoining the field & the Snowbird again was feeding one of them. I have little doubt of their being a pair of adult Chippies, with whom the Snowbird associates. Several times we saw the three together & once saw one of the Chippies of the brood fly directly off for the young with food in its bill. The Snowbird sang repeatedly for the first time to-day. Heard one of the young, but could only see down at dark spot from top of adjoining tree. [illegible] left but overcoming! I am strongly of the opinion that this is instance of miscegenation, but of an alien species taking a hand in the support of the young Chippies

22. Heavy rain